



GAIL FARBER, Director

COUNTY OF LOS ANGELES

DEPARTMENT OF PUBLIC WORKS

"To Enrich Lives Through Effective and Caring Service"

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ALHAMBRA, CALIFORNIA 91802-1460

July 15, 2013

IN REPLY PLEASE

REFER TO FILE: **SM-1**

Mr. Farrokh Abolfathi
Acting Director of Public Works
City of Carson
701 East Carson Street
Carson, CA 90745

Attention Mr. Massoud Ghiam

Dear Mr. Abolfathi:

CONSOLIDATED SEWER MAINTENANCE DISTRICT CONDITION ASSESSMENT PROGRAM REPORT PROJECT NO. Y0TV0910D

This letter is to inform you that as part of our Sewer Condition Assessment Program, the County of Los Angeles Department of Public Works Consolidated Sewer Maintenance District has completed the closed-circuit television inspection of 218,664 feet or 23 percent of the City of Carson's sewer system.

The enclosed report outlines the structural and maintenance ratings of your system based on the Pipeline Assessment and Certification Program's (PACP Version 6.0.1) rating methodology. Included in the report are the following:

- Condition Assessment Report
- Project Overview Map (Enclosure 1)
- Quick Maintenance Rating Report Priority List and Quick Maintenance Rating Map (Enclosure 2)
- High Water Levels List and Map (Enclosure 2)
- Infiltration List and Map (Enclosure 2)
- Quick Structural Rating Report Priority List, Quick Structural Rating Map, and Lining and Point Repair Projects Map (Enclosure 3)
- Infrastructure Inspection Reports for Grades 4 and 5 (Enclosure 4)

Mr. Farrokh Abolfathi
July 15, 2013
Page 2

The Condition Assessment Report provides details regarding the maintenance and structural condition of your City's sewer mainlines. This information should be included in your agency's Sewer System Management Plan as a reference in Chapter 8.0 System Evaluation and Capacity Assurance Plan. The segments with critical maintenance issues have been cleaned and, where appropriate, incorporated into our enhanced maintenance schedule. In addition, the segments with severe structural defects have either been repaired or will be scheduled for repair within the next 24 months as part of our ongoing Accumulative Capital Outlay Program.

If you have any questions regarding this report or the Condition Assessment Program, please contact Mr. Robert Swartz, Sewer Maintenance Division, at (626) 300-3367, Monday through Friday, 8 a.m. to 4 p.m., or rswartz@dpw.lacounty.gov.

Very truly yours,

GAIL FARBER
Director of Public Works



RAJESH PATEL
Assistant Deputy Director
Sewer Maintenance Division



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Enc.

bc: Program Development (Manning)
RP, MM, RS, FV, File (Project No.Y0TV0910D), SPINDLE

**CONDITION ASSESSMENT REPORT
COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS
CONSOLIDATED SEWER MAINTENANCE DISTRICT**

PROJECT NAME:	Y0TV0910D	PROJECT MGR:	Eric Liu
PROJECT DATE:	01/31/2011	CONTACT NO:	(626) 300-3369
SUP. DISTRICT(s):	2	MAP PAGE(S):	1704, 1705, 1760, 1761
Report By:	Eric Liu	Report Date:	05/23/2013

INTRODUCTION

As part of our Sewer Condition Assessment Program, the County of Los Angeles Department of Public Works Consolidated Sewer Maintenance District (District) has completed the closed-circuit television (CCTV) inspection of 218,664 feet or 23 percent of the City of Carson's (City) sewer system as part of this condition assessment report.

To date, the District has completed the CCTV inspection of 420,370 feet or 44.1 percent of the City's sewer system. In addition to this report, one previous condition assessment report dated April 12, 2011, was transmitted to your City. A copy of this report can also be found on the District's website at <http://dpw.lacounty.gov/smd/cctv/city/>. The remaining 55.9 percent of the City's sewer system is scheduled for CCTV inspection in Fiscal Year 2014-15.

The Sewer Condition Assessment Program utilizes the Pipeline Assessment and Certification Program (PACP Version 6.0.1) Quick Rating methodology to rank the structural and maintenance condition of your system based on industry standards.

PROJECT AREA AND DESCRIPTION

Project No. Y0TV0910D included sewer lines located in the unincorporated County of Los Angeles and in the Cities of Carson and Santa Clarita. Enclosed for your reference is an overview map of the project area within your City (Enclosure 1).

DEFECT GRADE DESCRIPTION

The Quick Rating indicates the number of occurrences for the highest severity grade for each pipe segment for either maintenance or structural defects. A grade of 1 indicates that a pipe segment is in excellent condition with minor defects while a grade of 5 indicates that a pipe segment may require immediate attention. A detailed breakdown of the five possible defect grades is as follows:

Grade	Defect Grade Description
1:	MINOR
2:	MINOR TO MODERATE
3:	MODERATE
4:	SIGNIFICANT
5:	MOST SIGNIFICANT

MAINTENANCE REPORT

Our inspection revealed that approximately 90.4 percent of the system televised was free of blockages or restrictions that would impede sewer flows. However, the remaining 9.6 percent of the inspected pipe segments had a PACP maintenance grade of 3, 4, or 5 as indicated in the Quick Maintenance Rating Table shown below. These segments have been incorporated into our enhanced maintenance schedule with corrective action taken as noted on the Quick Maintenance Rating Report Priority List (Enclosure 2).

In addition, a color-coded map showing the quick maintenance rating for each pipe segment is provided in Enclosure 2.

QUICK MAINTENANCE RATING TABLE

DEFECT GRADE	PIPE LENGTH (FT)	PERCENT TOTAL INSPECTED PIPE LENGTH	NO. SEGMENTS
1: Minor	353	0.2	3
2: Minor to Moderate	197,305	90.2	899
3: Moderate	7,430	3.4	33
4: Significant	12,247	5.6	53
5: Most Significant	1,329	0.6	6
TOTAL	218,664	100.0	994

Lateral Notices

Also included on the Quick Maintenance Rating Report Priority List are deficiencies discovered inside lateral connections to the mainline. The District does not maintain lateral lines. It is the responsibility of the property owner to maintain their respective lateral lines to facilitate the flow of wastewater from their property to the mainline. As a result of this condition assessment, 37 notices will be sent to property owners in your City notifying them of the maintenance issues discovered in their lateral. A sample lateral notice letter is provided in Enclosure 2 for your reference.

High Water Levels

Our inspection revealed that approximately 97.3 percent of the system televised has adequate capacity. Approximately 2.7 percent of the segments inspected exhibited deficiencies associated with high water levels. Capacity of the sewer pipe can be determined by analyzing several PACP codes, including Water Level, Water Mark, and miscellaneous remarks, which indicated the camera was underwater or there were sags in the line. A sewer pipe is typically considered at capacity when the sewer pipe is flowing half full. However, there are conditions in which the water level or water mark has reached 50 percent of capacity or greater due to heavy flows in adjoining pipes, a temporary stoppage due to debris in the sewer lines, or a sag in the line. Therefore, additional review of the pipe segments exhibiting high water level concerns was conducted to determine if any capacity issues exist. The sewer segments associated with high water levels appear to be the result of sags in the line, which do not impact its capacity. The pipe segments with sags have been cleaned to remove any debris in the line.

All sewer pipes where Water Level, Water Mark, and miscellaneous remarks of camera underwater or sags in the line are at or above 50 percent capacity, have been listed and analyzed on the High Water Level Table in Enclosure 2. The nature of these high water level conditions is also summarized on this table.

Infiltration

Our inspection revealed that approximately 0.2 percent of the system included in this project has infiltration within the pipe segment. Infiltration is the ingress of groundwater into the sewers through a defect or porous area of the pipe wall. All sewer pipes where infiltration was found are listed on the Infiltration Table (Enclosure 2). This table also provides the proposed corrective action for these impacted sewer segments. If a corrective method is proposed, the remediation will be scheduled in the next 24 months as part of our ongoing Accumulative Capital Outlay Program.

A map showing the sewer lines with high water levels and infiltration is provided in Enclosure 2.

STRUCTURAL REPORT

Our inspection revealed that approximately 94.9 percent of the inspected pipe segments within the City were free of severe structural defects. The remaining 5.1 percent of the inspected pipe segments had a PACP structural grade of 4 and 5 as indicated in the Quick Structural Rating Table shown below. These segments have been placed on a priority list based on the severity and the need for action. For Items 1 through 47 in the Quick Structural Rating Report Priority List (Enclosure 3), which require a corrective action, the proposed repair or replacement will be scheduled in the next 24 months as part of our ongoing Accumulative Capital Outlay Program.

A color-coded map showing the Quick Structural Rating for each pipe segment is located in Enclosure 3. Copies of the actual inspection report for these 47 segments are included in Enclosure 4. A map showing the sewer lines that need lining and point repair is also provided in Enclosure 3.

QUICK STRUCTURAL RATING TABLE

DEFECT GRADE	PIPE LENGTH (FT)	PERCENT TOTAL INSPECTED PIPE LENGTH	NO. SEGMENTS
1: Minor	139,697	63.9	666
2: Minor to Moderate	7,641	3.5	35
3: Moderate	60,066	27.5	246
4: Significant	8,116	3.7	31
5: Most Significant	3,144	1.4	16
TOTAL	218,664	100.0	994

FUTURE PROJECTS

The Sewer Condition Assessment Program will perform CCTV inspections of the remaining sewer lines within the City according to the following schedule:

FISCAL YEAR	PROJECT NAME	LENGTH (FT)	PERCENTAGE OF SYSTEM	STATUS
2008-2009	Y0TV0809D	201,706	21.2	COMPLETED
2009-2010	Y0TV0910D	218,664	23.0	COMPLETED
2014-2015	Y0TV1415B	531,975	55.8	FUTURE
TOTAL		952,345	100.0	

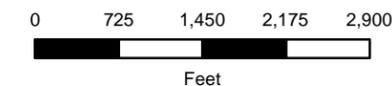
ENCLOSURE 1:

Project Overview Map

OVERVIEW MAP

CCTV PROJECT YOTV0910D

CITY OF CARSON



Legend

— SMD Sanitary Sewers

SMD Manholes

⊙ Other

● Standard

▲ DROP

■ Shallow

◇ Trap

⊗ Siphon

■ SMD Pump Stations

■ SMD Treatment Plants

Maintained by Others:

— Trunk Sewerlines

--- Non SMD Sanitary Sewers

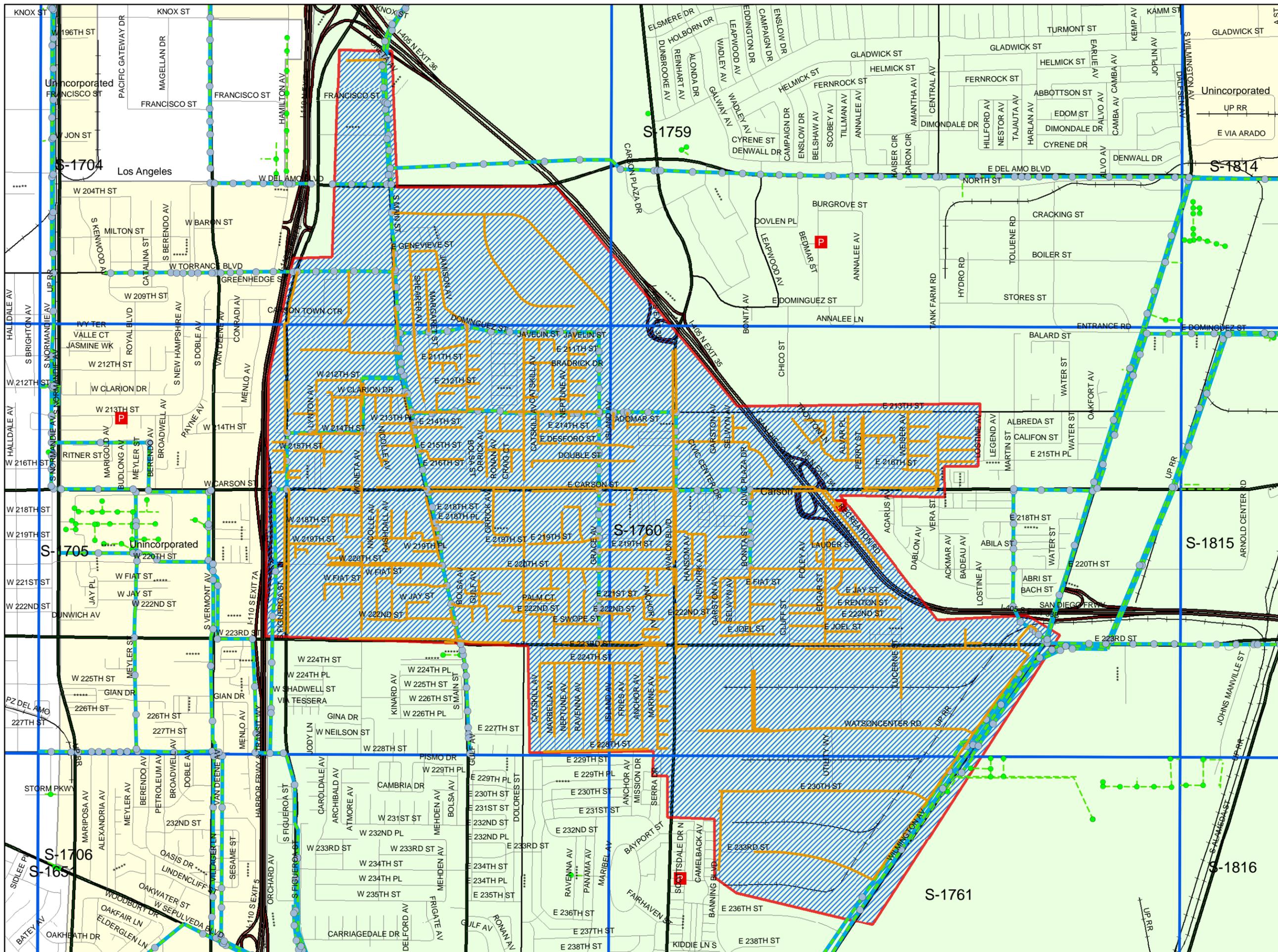
● Non SMD Maintained MH

□ SMD Operations Maps

▨ CCTV PROJECT AREA

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MAY 2013



ENCLOSURE 2:

- Quick Maintenance Rating Report
Priority List
- Quick Maintenance Rating Map
- High Water Levels
- Infiltration
- High Water Levels and Infiltration Map
- Sample Lateral Notice Letter

ENCLOSURE 2
QUICK MAINTENANCE RATING REPORT PRIORITY LIST
CITY OF CARSON (Y0TV0910D)
as of 01/31/2011

Item No.	QMR	Start MH	End MH	Street	Observation	Corrective Action Taken
1	5141	1705-0736	1705-TRNK	EASEMENT	Camera under water; grease	Hydrojet (11/18/11)
2	5141	1705-0753	1705-0714	DOLORES ST	Camera under water	Hydrojet (11/18/11)
3	5131	1705-0625	1705-0624	RAVENNA AV	Roots; sag; grease in lateral	Hydrojet (11/17/11) Lateral notice will be sent to property owner.
4	5131	1705-0750	1705-0751	RONAN AV	Root in lateral; roots	Hydrojet(11/18/11) Lateral notice will be sent to property owner.
5	5121	1705-0664	1705-0665	CATSKILL AV	Roots	Hydrojet (11/17/11)
6	5121	1705-0715	1705-0716	CLARION DR	Roots	Hydrojet (11/18/11)
7	4A22	1760-0493	1760-0604	EDGAR ST	Camera underwater	Hydrojet (12/01/11)
8	4721	1705-0036	1705-0037	FIGUEROA ST	Camera underwater	Hydrojet (11/16/11)
9	4533	1705-0070	1705-0069	213TH ST	Roots; root in lateral	Hydrojet (11/16/11) Lateral notice will be sent to property owner.
10	452A	1705-0919	1705-TRNK	220TH ST	Camera under water; sag	Hydrojet (11/29/11)
11	4421	1760-0405	1760-0406	EASEMENT	Camera under water	Hydrojet (12/01/11)
12	4331	1705-0497	1705-0498	CATSKILL AV	Roots in lateral	Lateral notice will be sent to property owner.
13	4331	1760-0315	1760-0314	FRIES AV	Roots in lateral	Lateral notice will be sent to property owner.
14	4324	1705-0483	1705-0482	RAVENNA AV	Roots in lateral	Lateral notice will be sent to property owner.
15	4324	1760-0307	1705-0970	223RD ST	Roots in lateral; roots	Hydrojet (11/30/11) Lateral notice will be sent to property owner.
16	4322	1760-0301	1760-0303	MARINE AV	Roots; roots in lateral	Hydrojet (11/30/11) Lateral notice will be sent to property owner.
17	4231	1705-0662	1705-0661	NEPTUNE AV	Roots in lateral; roots	Hydrojet (11/17/11) Lateral notice will be sent to property owner.
18	4225	1705-0498	1705-0499	CATSKILL AV	Roots in lateral	Lateral notice will be sent to property owner.
19	4222	1705-0892	1705-0891	219TH ST	Sag	Hydrojet (11/29/11)
20	4222	1760-0289	1760-0290	MARINE AV	root in lateral; roots	Hydrojet (11/30/11) Lateral notice will be sent to property owner.
21	4222	1760-0517	1760-0515	WATSON CENTER DR	Sag	Hydrojet (12/01/11)
22	4221	1704-0132	1704-0133	TORRANCE BV	Roots in lateral	Lateral notice will be sent to property owner.
23	4221	1705-0034	1705-0035	218TH PL	Camera under water; grease in lateral	Hydrojet (11/16/11) Lateral notice will be sent to property owner.
24	4132	1705-0901	1705-0902	ARCHIBALD AV	Roots in lateral; roots	Hydrojet (11/29/11) Lateral notice will be sent to property owner.
25	4132	1760-0457	1760-0456	EDGAR ST	Sag; root in lateral; intruding lateral	Hydrojet (12/01/11) Lateral notice will be sent to property owner.
26	4131	1705-0740	1705-0742	JAVELIN ST	Roots in lateral; roots	Hydrojet (11/18/11) Lateral notice will be sent to property owner.
27	4131	1705-0914	1705-0915	220TH ST	Roots in lateral	Lateral notice will be sent to property owner.
28	4131	1705-0917	1705-1059	220TH ST	Roots in lateral	Lateral notice will be sent to property owner.

ENCLOSURE 2
QUICK MAINTENANCE RATING REPORT PRIORITY LIST
CITY OF CARSON (Y0TV0910D)
as of 01/31/2011

Item No.	QMR	Start MH	End MH	Street	Observation	Corrective Action Taken
29	4127	1705-0802	1705-0789	FOXWELL AV	Roots; intruding liner at lateral	Hydrojet (11/30/11) Lateral notice will be sent to property owner.
30	4125	1704-0125	1704-0126	SHEARER AV	Roots	Hydrojet (11/16/11)
31	4124	1705-0664	1705-0666	219TH ST	Roots; debris	Hydrojet (11/17/11)
32	4123	1705-0479	1705-0480	RAVENNA AV	Roots in lateral; deposit	Hydrojet (11/17/11) Lateral notice will be sent to property owner.
33	4123	1705-0919	1705-0918	220TH ST	Roots; root in lateral	Hydrojet (11/29/11) Lateral notice will be sent to property owner.
34	4123	1705-0949	1705-0950	CAROLDALE AV	Roots in lateral; roots	Hydrojet (11/29/11) Lateral notice will be sent to property owner.
35	4123	1760-0296	1760-0295	226TH ST	Root in lateral; grease in lateral	Lateral notice will be sent to property owner.
36	4122	1705-0055	1705-0054	EASEMENT	Deposits settled; roots in lateral	Hydrojet (11/16/11) Lateral notice will be sent to property owner.
37	4122	1705-0424	1705-0989	MARGARET ST	Water mark; camera underwater; grease	Hydrojet (11/16/11)
38	4122	1705-0473	1705-0474	GRACE AV	Roots; grease in lateral	Hydrojet (11/17/11) Lateral notice will be sent to property owner.
39	4122	1705-0790	1705-0791	213TH ST	Camera under water	Hydrojet (11/18/11)
40	4122	1760-0299	1760-0301	MARINE AV	Roots in lateral	Lateral notice will be sent to property owner.
41	4122	1760-0306	1760-0307	223RD ST	Roots in lateral	Lateral notice will be sent to property owner.
42	4122	1760-0317	1760-0316	FRIES AV	Roots in lateral	Lateral notice will be sent to property owner.
43	4122	1760-0324	1705-0478	224TH ST	Roots in lateral	Lateral notice will be sent to property owner.
44	4122	1760-0395	1760-0397	AVALON BV	Camera under water	Hydrojet (11/30/11)
45	4122	1760-0572	1760-0571	GARSTON AV	Roots in lateral; roots	Hydrojet (12/01/11) Lateral notice will be sent to property owner.
46	4121	1705-0041	1705-0042	FIGUEROA ST	Roots in lateral	Lateral notice will be sent to property owner.
47	4121	1705-0045	1705-1013	FIGUEROA ST	Roots in lateral	Lateral notice will be sent to property owner.
48	4121	1705-0112	1704-0080	FIGUEROA ST	Heavy deposit settled	Hydrojet (11/16/11)
49	4121	1705-0475	1705-0476	GRACE AV	Roots	Hydrojet (11/17/11)
50	4121	1705-0818	1705-TRNK	MAIN ST	Camera under water	Hydrojet (11/30/11)
51	4121	1705-0846	1705-1006	MAIN ST	Obstacle utility external pipe	Point Repair (completed: 11/29/2012)
52	4121	1705-0912	1705-0913	220TH ST	Roots in lateral	Lateral notice will be sent to property owner.
53	4121	1705-1040	1705-1041	220TH ST	Roots in lateral	Lateral notice will be sent to property owner.
54	4121	1760-0016	1760-0015	PRIVATE RD	Change in pipe size and material: 23'	No action needed.
55	4121	1760-0421	1760-0425	HADLER ST	Roots in lateral	Lateral notice will be sent to property owner.
56	4121	1760-0505	1760-0506	223RD ST	Roots in lateral	Lateral notice will be sent to property owner.

ENCLOSURE 2
QUICK MAINTENANCE RATING REPORT PRIORITY LIST
CITY OF CARSON (Y0TV0910D)
as of 01/31/2011

Item No.	QMR	Start MH	End MH	Street	Observation	Corrective Action Taken
57	4121	1760-0508	1760-0507	223RD ST	Roots in lateral	Lateral notice will be sent to property owner.
58	4121	1760-0546	1760-0545	PERRY ST	Infiltration runner: 103'	Lining: MH to MH
59	4121	1761-0205	1761-0207	230TH ST	Sag	Hydrojet (12/01/11)
60	3821	1760-0515	1760-0514	WATSON CENTER DR	Deposit attached grease	Hydrojet (12/01/11)
61	3224	1705-0851	1705-0853	RITNER ST	Roots in lateral; roots	Hydrojet (11/29/11)
62	3222	1705-0739	1705-0740	JAVELIN ST	Grease; sag	Hydrojet (11/18/11)
63	3221	1705-1013	1705-0044	FIGUEROA ST	Roots in lateral	Lateral notice will be sent to property owner.
64	3221	1705-1039	1705-1038	220TH ST	Roots in lateral	Lateral notice will be sent to property owner.
65	3125	1705-0664	1705-0663	219TH ST	Roots in lateral; roots	Hydrojet (11/17/11) Lateral notice will be sent to property owner.
66	3124	1705-0861	1705-0860	MONETA AV	Tap break-in defect	No action needed.
67	3123	1705-0065	1705-0064	LYNTON AV	Roots in lateral; pipe obstacle in MH 64	Hydrojet (11/16/11)
68	3123	1705-0674	1705-0683	DOLORES ST	Grease; grease in lateral	Hydrojet (11/17/11) Lateral notice will be sent to property owner.
69	3122	1705-0769	1705-0768	CARSON ST	Roots in lateral	Lateral notice will be sent to property owner.
70	3122	1705-0774	1705-0773	ORRICK AV	Sag	Hydrojet (11/18/11)
71	3122	1705-0809	1705-0808	BOLSA ST	Roots in lateral; roots	Hydro (11/30/11) Lateral notice will be sent to property owner.
72	3122	1705-0901	1705-0900	218TH ST	Roots in lateral	Lateral notice will be sent to property owner.
73	3122	1705-1018	1705-0046	FIGUEROA ST	Roots in lateral; debris; roots	Hydrojet (11/30/11) Lateral notice will be sent to property owner.
74	3122	1760-0215	1760-0565	213TH ST	Infiltration runner	No action needed.
75	3121	1705-0417	1705-0864	CARSON ST	Sag	Hydrojet (11/16/11)
76	3121	1705-0504	1705-0970	223RD ST	Sag	Hydrojet (11/17/11)
77	3121	1705-0788	1705-0787	213TH ST	Sag	Hydrojet (11/18/11)
78	3121	1705-0791	1705-0792	213TH ST	Tap break-in defect	No action needed.
79	3121	1705-0835	1705-0834	CLARION DR	Roots	Hydrojet (11/29/11)
80	3121	1705-0840	1705-0835	CLARION DR	Roots in lateral	Lateral notice will be sent to property owner.
81	3121	1705-0904	1705-0903	CAROLDALE AV	Roots in lateral	Lateral notice will be sent to property owner.
82	3121	1705-0947	1705-0948	ARCHIBALD AV	Roots in lateral	Lateral notice will be sent to property owner.
83	3121	1705-1040	1705-1039	220TH ST	Roots in lateral	Lateral notice will be sent to property owner.
84	3121	1705-1061	1705-0688	DOUBLE ST	Roots (line was cleaned during inspection)	Line was cleaned during inspection.

ENCLOSURE 2
QUICK MAINTENANCE RATING REPORT PRIORITY LIST
CITY OF CARSON (Y0TV0910D)
as of 01/31/2011

Item No.	QMR	Start MH	End MH	Street	Observation	Corrective Action Taken
85	3121	1760-0481	1760-0489	RENTON ST	Tap break-in defect	No action needed.
86	3121	1760-0507	1760-0506	223RD ST	root in lateral	Lateral notice will be sent to property owner.
87	3121	1760-0574	1760-0232	BONITA ST	Sag	Hydrojet (12/01/11)
88	3121	1761-0293	1761-WEST	PRIVATE RD	Sag	Hydro (12/01/11)
89	3100	1705-0864	1705-0863	MONETA AV	Water mark	No action needed.
90	3100	1705-0911	1705-0910	220TH ST	Sag	Hydro (11/29/11)
91	3100	1760-0008	1760-0007	WILMINGTON AV	Water mark	No action needed.
92	3100	1760-0452	1760-0599	220TH ST	Water mark	No action needed.

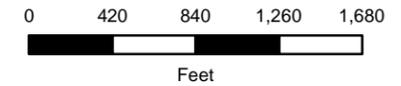
ENCLOSURE 2

CCTV PROJECT

YOTV0910D

CARSON

QUICK MAINTENANCE RATING (QMR)



Legend

SMD Sanitary Sewers

- QMR**
- 1: MINOR
 - 2: MINOR TO MODERATE
 - 3: MODERATE
 - 4: SIGNIFICANT
 - 5: MOST SIGNIFICANT

SMD Manholes

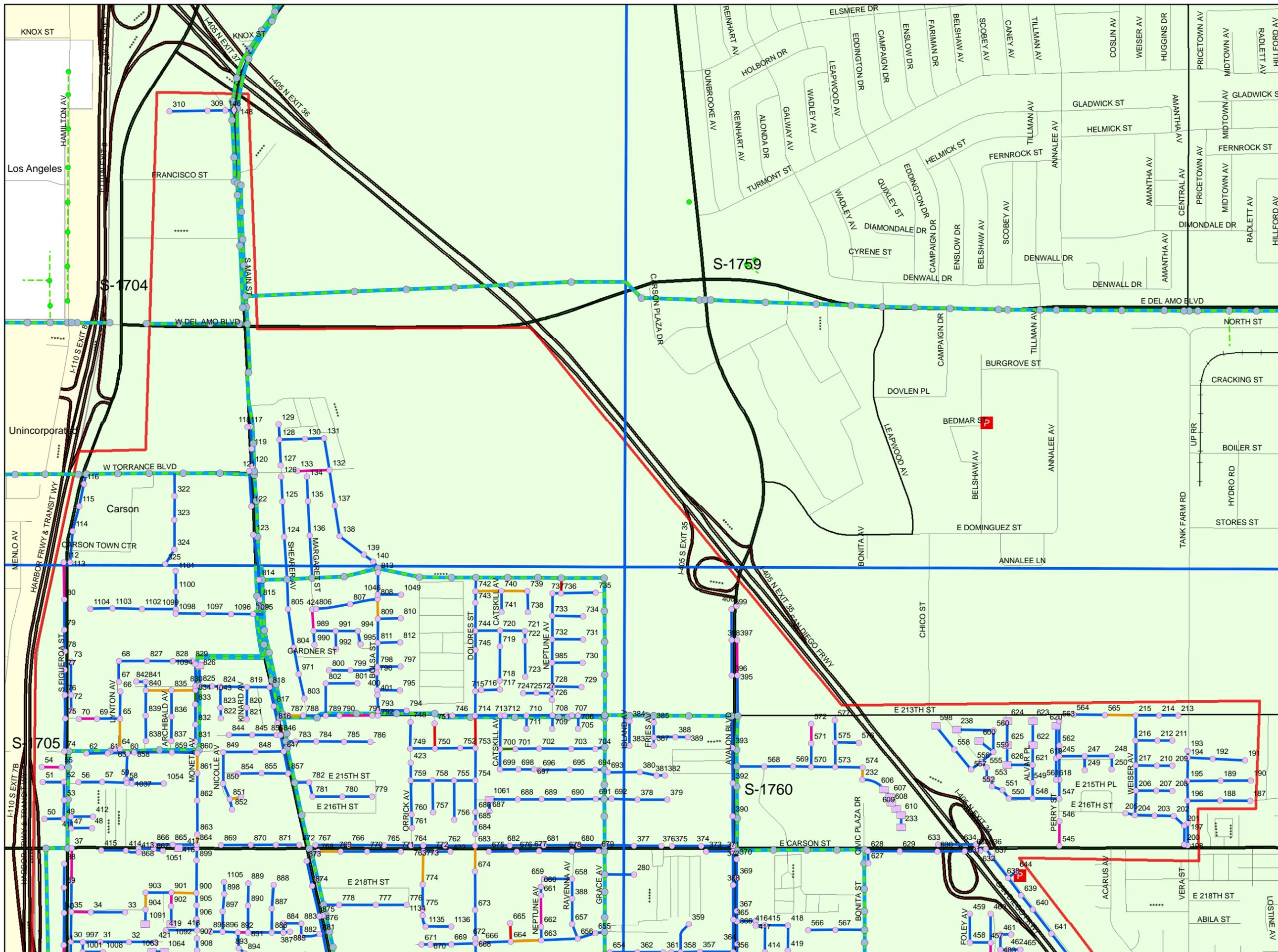
- Other
- Standard
- DROP
- Shallow
- Trap
- Siphon
- SMD Pump Stations
- SMD Treatment Plants

Maintained by Others:

- Trunk Sewerlines
- Non SMD Sanitary Sewers
- Non SMD Maintained MH
- SMD Operations Maps
- CCTV PROJECT AREA

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APRIL 2013



ENCLOSURE 2
HIGH WATER LEVELS
CITY OF CARSON (Y0TV0910D)
as of 01/31/2011

Item No.	QMR	START MH	END MH	STREET	OBSERVATION	PERCENT CAPACITY: LOCATION
1	5141	1705-0736	1705-TRNK	EASEMENT	Camera under water due to trunk	(40% - 80%): 125' - end MH
2	5141	1705-0753	1705-0714	DOLORES ST	Camera under water	(80%): 220' - 225'
3	5131	1705-0625	1705-0624	RAVENNA AV	Sag due to root	(30%): 210' - 250'
4	4A22	1760-0493	1760-0604	EDGAR ST	Camera under water	(30% - 60%): 120' - end MH
5	4721	1705-0036	1705-0037	FIGUEROA ST	Camera under water	(30% - 60%): 178' - 240'
6	452A	1705-0919	1705-TRNK	220TH ST	Camera under water and sag due to trunk	(30% - 60%): start MH - 40'; (30%): 65' - 110'
7	4421	1760-0405	1760-0406	EASEMENT	Camera under water	(50% - 80%): 120' - 130'
8	4222	1705-0892	1705-0891	219TH ST	Sag	(30% - 60%): 50' - end MH
9	4222	1760-0517	1760-0515	WATSON CENTER DR	Sag	(30% - 80%): 275' - end MH
10	4221	1705-0034	1705-0035	218TH PL	Camera under water	(30% - 60%): 172' - end MH
11	4132	1760-0457	1760-0456	EDGAR ST	Sag	(40% - 60%): 80' - 120'
12	4122	1705-0424	1705-0989	MARGARET ST	Camera under water	(50%): 105' - 110'
13	4122	1705-0790	1705-0791	213TH ST	Camera under water	(30% - 60%): 315' - end MH
14	4122	1760-0395	1760-0397	AVALON BV	Camera under water	(30% - 60%): 220' - 335'
15	4121	1705-0818	1705-TRNK	MAIN ST	Camera under water due to trunk	(40% - 80%): 74' - end MH
16	4121	1761-0205	1761-0207	230TH ST	Sag	(25% - 60%): 330' - end MH
17	3222	1705-0739	1705-0740	JAVELIN ST	Sag	(30% - 50%): 110' - 120'
18	3122	1705-0774	1705-0773	ORRICK AV	Sag	(30% - 80%): 265' - end MH
19	3121	1705-0417	1705-0864	CARSON ST	Sag	(30%): 25' - 45'
20	3121	1705-0504	1705-0970	223RD ST	Sag	(30%): 175' - end MH
21	3121	1705-0788	1705-0787	213TH ST	Sag	(50% - 80%): 153' - end MH
22	3121	1760-0574	1760-0232	BONITA ST	Sag	(30% - 60%): 95' - end MH
23	3121	1761-0293	1761-WEST	PRIVATE RD	Sag	(30%): 15' - 28'
24	3100	1705-0864	1705-0863	MONETA AV	Water mark	
25	3100	1705-0911	1705-0910	220TH ST	Sag	(30%): start MH - 10'
26	3100	1760-0008	1760-0007	WILMINGTON AV	Water mark	
27	3100	1760-0452	1760-0599	220TH ST	Water mark	

**ENCLOSURE 2
INFILTRATION
CITY OF CARSON (Y0TV0910D)**

as of 01/31/2011

ITEM NO.	QMR	START MH	END MH	STREET	OBSERVATION	PROPOSED CORRECTIVE METHOD	LENGTH OF REPAIR (FT)
1	4121	1760-0546	1760-0545	PERRY ST	Infiltration runner: 103'	Lining: MH to MH	227
2	3122	1760-0215	1760-0565	213TH ST	Infiltration runner: 111'	Infiltration is minimal. No action needed.	

TOTAL 227

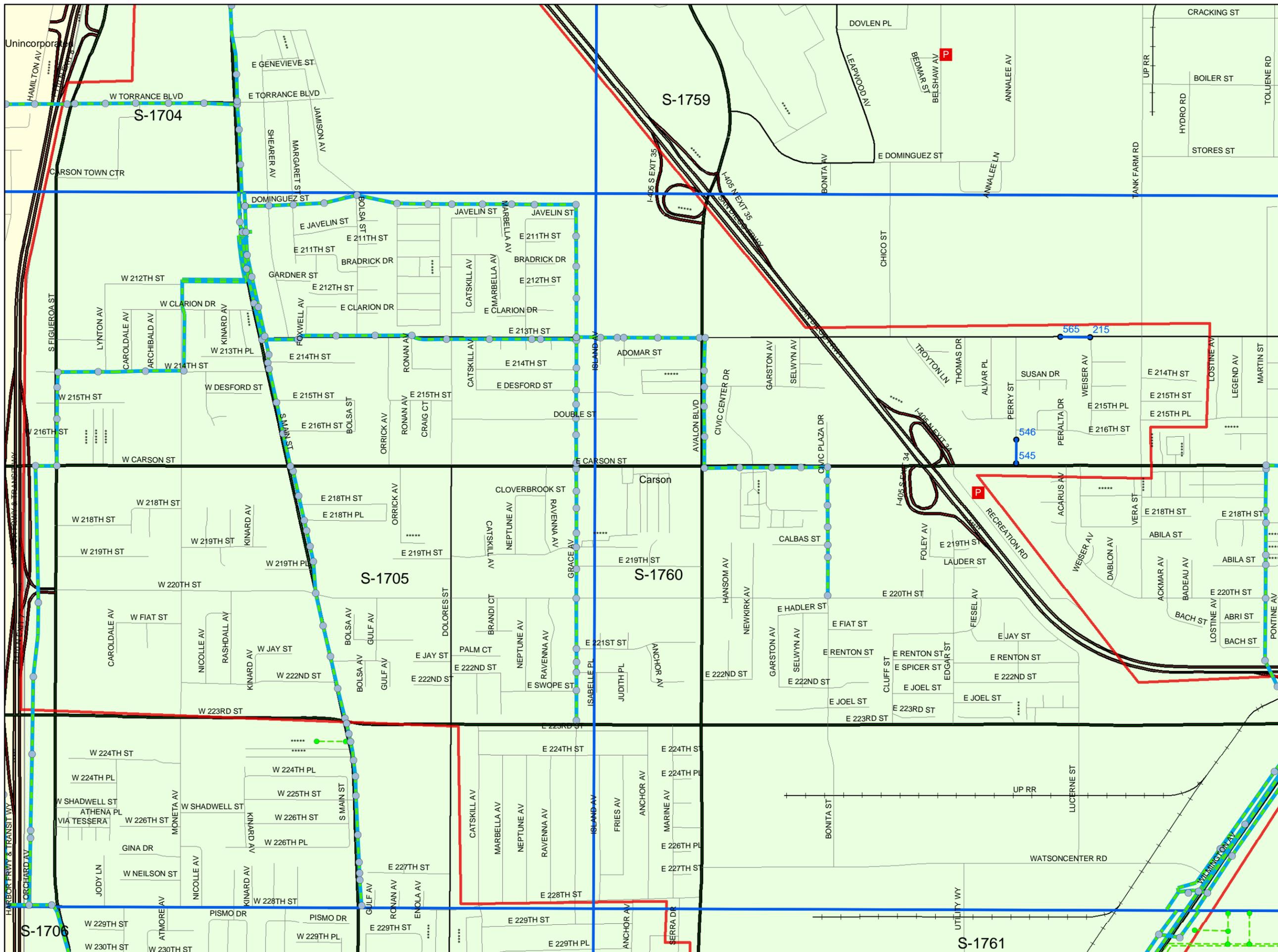
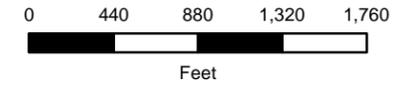
ENCLOSURE 2

CCTV PROJECT

YOTV0910D

CARSON

INFILTRATION



Legend

- Infiltration
- SMD Manholes**
 - Other
- Manhole Type**
 - Standard
 - DROP
 - Shallow
 - Trap
 - Siphon
 - SMD Pump Stations
 - SMD Treatment Plants
- Maintained by Others:**
 - Trunk Sewerlines
 - Non SMD Sanitary Sewers
 - Non SMD Maintained MH
 - SMD Operations Maps
 - CCTV PROJECT AREA

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GAIL FARBER, Director

COUNTY OF LOS ANGELES

DEPARTMENT OF PUBLIC WORKS

"To Enrich Lives Through Effective and Caring Service"

900 SOUTH FREMONT AVENUE
ALHAMBRA, CALIFORNIA 91803-1331
Telephone: (626) 458-5100
<http://dpw.lacounty.gov>

ADDRESS ALL CORRESPONDENCE TO:
P.O. BOX 1460
ALHAMBRA, CALIFORNIA 91802-1460

{Date}

IN REPLY PLEASE

REFER TO FILE:

SM-1

Current Property Owner

Dear Property Owner:

SEWER LATERAL ROOT INTRUSION

As the agency responsible for the maintenance of the sanitary sewer system in your area, the County of Los Angeles Consolidated Sewer Maintenance District (District) is providing you with this courtesy notice informing you that the sewer lateral serving the property located at XXXX, requires maintenance per **County Code 20.24.080 Maintenance of Sewer Laterals.**

"All house laterals, industrial connection sewers, septic tank outlet connections to STEP system, and appurtenances thereto existing as of January 23, 1953, or thereafter constructed, shall be maintained by the owner of the property served in a safe and sanitary condition, and all devices or safeguards which are required by this Division 2 for the operation thereof shall be maintained in good working order."

Using closed-circuit television (CCTV) camera technology, the District recently televised the sanitary sewer mainline and discovered the presence of roots in your sewer lateral connection. The intrusion of the roots from your lateral may block the flow of sewage in the mainline sewer causing a sanitary sewer overflow upstream of your property.

Since the CCTV inspection, the sewer mainline has been cleaned and blockages from root growth have been removed; however, the root blockage in your sewer lateral is still present. As the property owner, you are responsible for the entire length of the sewer lateral, which includes the portion that extends beyond the property line into the public right of way. We request that you contact a qualified plumbing contractor to service your sewer lateral within 90 days to remove roots and any other obstructions that may cause a sewage backup.

Prior to your plumbing contractor servicing your lateral, please notify the District's sewer maintenance yard in your area at (XXX) XXX-XXXX to arrange for authorization to access the downstream manhole.

During your lateral service, your plumbing contractor must protect the District's sewer mainlines from dislodged roots and other debris by utilizing catcher baskets at the manhole downstream from your lateral connection.

After your lateral has been serviced, please notify Mr. Fernando Villaluna, Sewer Maintenance Division, at (626) 300-3380 or fvillaluna@dpw.lacounty.gov.

For your reference, we have enclosed photos of your lateral connection showing the presence of the root blockage. Also enclosed are some literature on ways of minimizing sewer overflows and damage to your home.

Thank you for helping the Department of Public Works keep the public's sewers clean and in good working order.

Very truly yours,

GAIL FARBER
Director of Public Works

RAJESH PATEL
Assistant Deputy Director
Sewer Maintenance Division

XXXX

Enc.

XXXX
Roots at Lateral Connection



Minimizing Sewer Overflows and Damage to Your Home

The sewer system within the County of Los Angeles Consolidated Sewer Maintenance District (District) is comprised of a series of underground pipes. Many are publicly owned; however, the sewer laterals are entirely owned by the private property owner they serve. The laterals extend from the building to the mainline within the street (or within an easement at the rear of your home). The laterals are typically four inches in diameter while the District's mainline is typically at least eight inches in diameter. The private property owner is responsible for the entire length of the lateral, which includes the portion that may be located within the public right of way (under the asphalt and street landscaping).

SEWER LATERALS – AREAS OF RESPONSIBILITY



Sewer backups can cause tremendous damage to the interior of a home. In order to minimize these, the District provides continual maintenance services for the public sewer mainlines.

Unfortunately, sewer laterals are often not maintained by private property owners until a disaster strikes. “Out of sight, out of mind” is a typical approach to sewer lateral maintenance and operation by many. It is our hope that we can provide you various means of addressing these issues and thus minimize your risk of an overflow entering your home.

The three methods we suggest are:

1. Maintain your lateral through proper cleaning, repair, and replacement
2. Do not place improper items into the sewer or make improper connections to the sewer
 - a. Keep rainwater out of the sewer lines as it overwhelms the capacity of the sewer lines and may cause sewer spills.
 - b. Do not pour fats, oils, and grease in your drains as these products harden and stick to the inside of the sewer pipes, which build up and may eventually cause a blockage in the sewer pipe.
3. Install a backflow preventer and cleanout in your sewer lateral.

ENCLOSURE 3:

- Quick Structural Rating Report
Priority List
- Quick Structural Rating Map
- Rehabilitation Projects Map

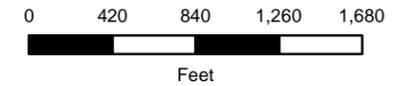
ENCLOSURE 3
QUICK STRUCTURAL RATING REPORT PRIORITY LIST
CITY OF CARSON (Y0TV0910D)
as of 01/31/2011

No.	QSR	Start MH	End MH	Street	Observation: Location	Proposed Corrective Method	Length of Repair (FT)
1	5323	1705-0966A	1705-0967	220TH ST	Hole: 182'; broken (concrete patch): 183'; fractures: 213'	Structural integrity in tact. No action needed.	
2	5241	1705-0039	1705-0038	FIGUEROA ST	Broken: 2', 191', 197'	Lining: MH to MH	198
3	5241	1705-0668	1705-0669	219TH ST	Broken: 289'; hole: 81'; fracture: 85'	Point Repair: 289'	
4	5142	1760-0340	1760-0342	AVALON BV	Fracture: 2'; broken/fractures: 47' - 52'	Point Repair	
5	5141	1705-0504	1705-0970	223RD ST	Hole with visible soil: 197'; fractures: 190' - 199'	Lining: MH to MH	206
6	5141	1705-0765	1705-0764	CARSON ST	Broken: 98' - 103', 139'; fractures: 4', 8', 11', 14', 53', 77', 95'	Emergency Point Repair and Lining (completed: 11/19/2010)	
7	5141	1705-0766	1705-0765	CARSON ST	Broken: 133', 281'; fractures and cracks: multiple locations	Lining: MH to MH	326
8	5133	1760-0338	1760-0341	AVALON BV	Fracture: 6'; broken: 195'	Structural integrity in tact. No action needed.	
9	5131	1705-0765A	1705-0764	CARSON ST	Fracture: 22', 25', 28', 52', 76'; fracture multiple: 46'; hole void visible: 91' Reverse: fracture: 12', 46'; fracture multiple: 21'; hole void visible: 74'	Emergency Lining (completed: 11/19/2010)	
10	5113	1760-0466	1760-0451	EASEMENT	Hole: 75'	Structural integrity in tact. No action needed.	
11	5111	1705-0867	1705-0866	CARSON ST	Hole (repair patch): 39'	Structural integrity in tact. No action needed.	
12	5100	1704-0120	1704-0121	TORRANCE BV	Hole void visible: 9'	Structural integrity in tact. No action needed.	
13	5100	1705-0846	1705-TRNK	MAIN ST	Hole soil visible: 46' due to utility break-in; Reverse: hole soil visible: 9'	Point Repair (completed: 11/29/2012)	
14	5100	1705-1015	1705-1016	PRIVATE RD	Hole (liner failure): 82'	Structural integrity in tact. No action needed.	
15	5100	1760-0215	1760-0565	213TH ST	Hole void visible with infiltration: 113'	Structural integrity in tact. No action needed.	
16	5100	1760-0606	1760-0232	PRIVATE RD	Hole: 191'	Structural integrity in tact. No action needed.	
17	443B	1705-0689	1705-0690	DOUBLE ST	Fracture: 5', 226', 269'; fracture multiple: 56', 112', 169', 215', 256', 283'	Lining: MH to MH	305
18	433G	1705-0779	1705-0780	ALLEY	Fractures (multiple): 93', 96'; fracture: 19', 40', 58', 108', 132', 137', 216', 230', 232', 280'	Lining: MH to MH	332
19	4334	1704-0136	1705-TRNK	MARGARET ST	Fractures: 62', 132', 168', 178'; broken: 226', 339'	Lining: MH to MH	340
20	4334	1760-0320	1760-0321	ISLAND AV	Fracture: 39'; fractures: 120' - 123'; cr acks	Lining: MH to MH	209
21	4239	1705-0890	1705-0891	RASHDALL AV	Fracture: 108', 111', 180', 212', 233', 236', 240', 260', 266'; fracture multiple: 196' - 200'	Lining: MH to MH	270
22	4236	1704-0128	1704-0130	GENEVIEVE ST	Fractures: 2', 222'; cracks: multiple locations	Lining: MH to MH	226
23	4221	1705-0971	1705-0803	SHEARER AV	Fractures: 34', 219'; fracture: 146'	Lining: MH to MH	260
24	4131	1705-0805	1705-TRNK	SHEARER AV	Broken: 138'; fractures: 132', 140', 196'; fracture/cracks: 2', 79', 98', 102', 105', 111', 129', 135', 153', 172', 202'	Lining: MH to MH	343
25	413H	1705-0762	1705-0683	CARSON ST	Fracture: 71', 161'; fractures: 257'	Structural integrity in tact. No action needed.	
26	413F	1705-0658	1705-0388	RAVENNA AV	Fractures: 54', 88', 115', 136', 142', 157', 211'	Lining: MH to MH	217
27	413D	1705-0804	1705-0805	SHEARER AV	Fractures: 143', 336'; fracture: 13', 63', 102', 209', 259', 294'; cracks	Lining: MH to MH	349
28	413C	1705-0498	1705-0499	CATSKILL AV	Fractures: 11', 42', 131', 137', 141', 157'	Lining: MH to MH	350
29	413A	1705-0690	1705-0691	DOUBLE ST	Fractures: 32', 54', 57', 111', 137', 164', 212', 245', 247', 259'; cracks	Lining: MH to MH	266
30	4139	1705-0780	1705-0781	ALLEY	Broken: 283' - 285'; Fractures: 4', 38', 72', 215', 239', 264', 271', 274'	Lining: MH to MH	294
31	4137	1705-1061	1705-0688	DOUBLE ST	Fractures: 70'; fracture: 116', 123', 153'	Structural integrity in tact. No action needed.	
32	4137	1760-0289	1760-0290	MARINE AV	Fractures: 25', 52', 81', 127', 170', 196', 225'; cracks	Lining: MH to MH	245
33	4135	1705-0497	1705-0498	CATSKILL AV	Fracture: 156', 177', 216', 241', 245'; fracture multiple: 275', 287'	Lining: MH to MH	350
34	4131	1705-0859	1705-0860	214TH ST	Fracture: 134'; broken: 248'	Structural integrity in tact. No action needed.	
35	4131	1705-0967A	1705-0968	220TH ST	Fracture: 16'; broken: 53'	Lining: MH to MH	127
36	4131	1705-0969	1705-0649	220TH ST	Fracture: 50', 123', 181', 277'; fractures: 262'	Lining: MH to MH	310
37	4131	1705-0971	1705-0804	SHEARER AV	Fracture: 52'; fractures: 194'	Lining: MH to MH	270
38	4131	1760-0355	1760-0356	AVALON BV	Broken/fracture: 201'	Structural integrity in tact. No action needed.	
39	4121	1705-0041	1705-0042	FIGUEROA ST	Broken: 306'	Structural integrity in tact. No action needed.	
40	4121	1705-0493	1705-0492	MARBELLA AV	Fractures: 3'; fracture: 242'	Structural integrity in tact. No action needed.	
41	4121	1705-0818	1705-TRNK	MAIN ST	Hole: 44'; fracture: 10'	Lining: MH to MH	80
42	4121	1705-1046	1705-0813	BOLSA ST	Fractures: 112'	Structural integrity in tact. No action needed.	
43	4111	1760-0215	1760-0214	213TH ST	Fractures: 41'	Structural integrity in tact. No action needed.	
44	4100	1704-0121	1704-TRNK	TORRANCE BV	Fractures: 6'	Lining: MH to MH	11
45	4100	1705-0419	1705-0418	PRIVATE RD	Fracture: 303'	Structural integrity in tact. No action needed.	
46	4100	1705-0793	1705-0794	213TH ST	Fractures: 288' (no lateral upstream of break and terminal MH)	Structural integrity in tact. No action needed.	
47	4100	1705-0919	1705-1038	220TH ST	Fractures: 34'	Structural integrity in tact. No action needed.	

ENCLOSURE 3 CCTV PROJECT YOTV0910D

CARSON

QUICK STRUCTURAL RATING (QSR)



Legend

SMD Sanitary Sewers

QSR

- 1: MINOR
- 2: MINOR TO MODERATE
- 3: MODERATE
- 4: SIGNIFICANT
- 5: MOST SIGNIFICANT

SMD Manholes

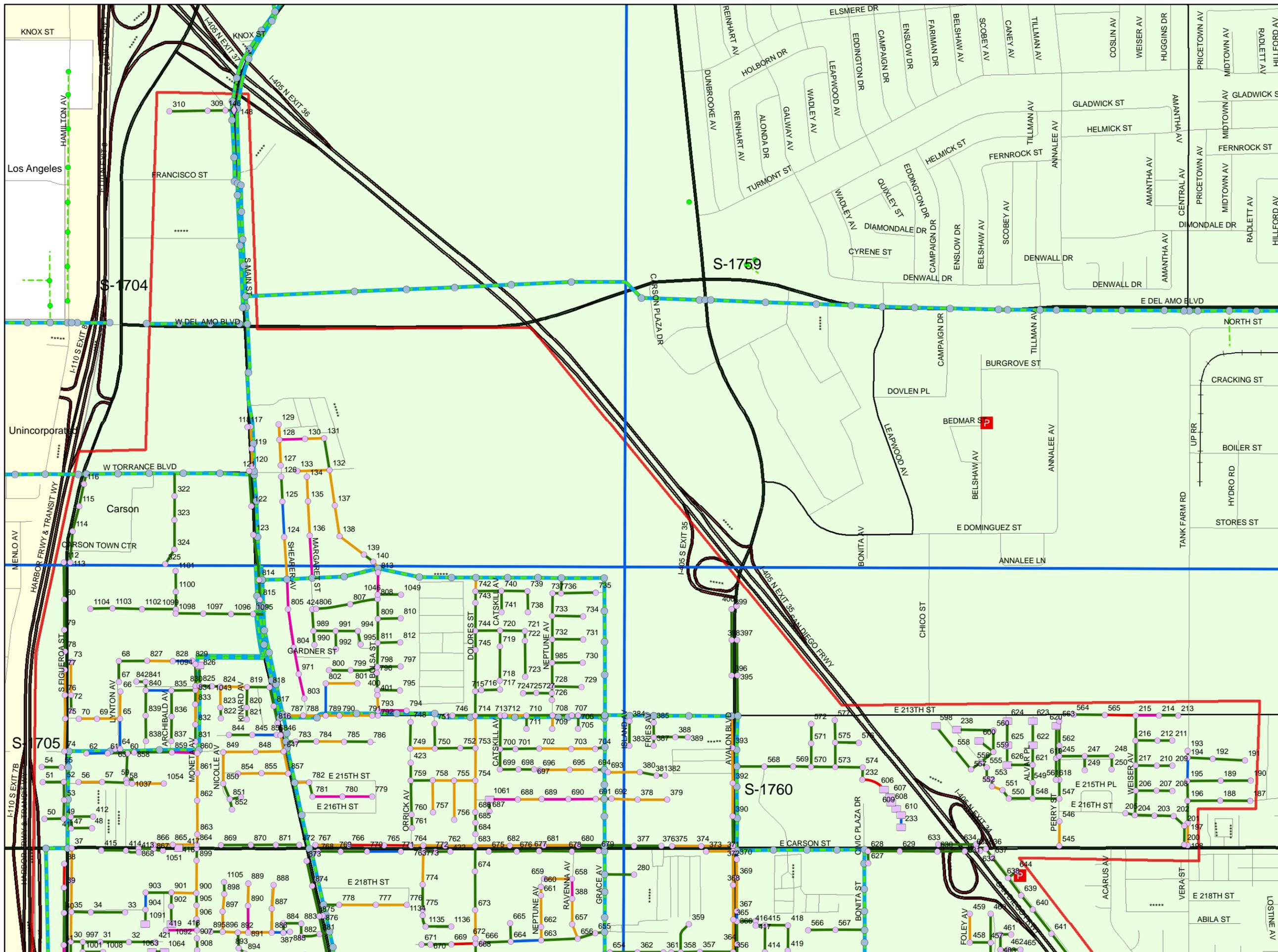
- Other
- Standard
- DROP
- Shallow
- Trap
- Siphon
- SMD Pump Stations
- SMD Treatment Plants

Maintained by Others:

- Trunk Sewerlines
- Non SMD Sanitary Sewers
- Non SMD Maintained MH
- SMD Operations Maps
- CCTV PROJECT AREA

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APRIL 2013

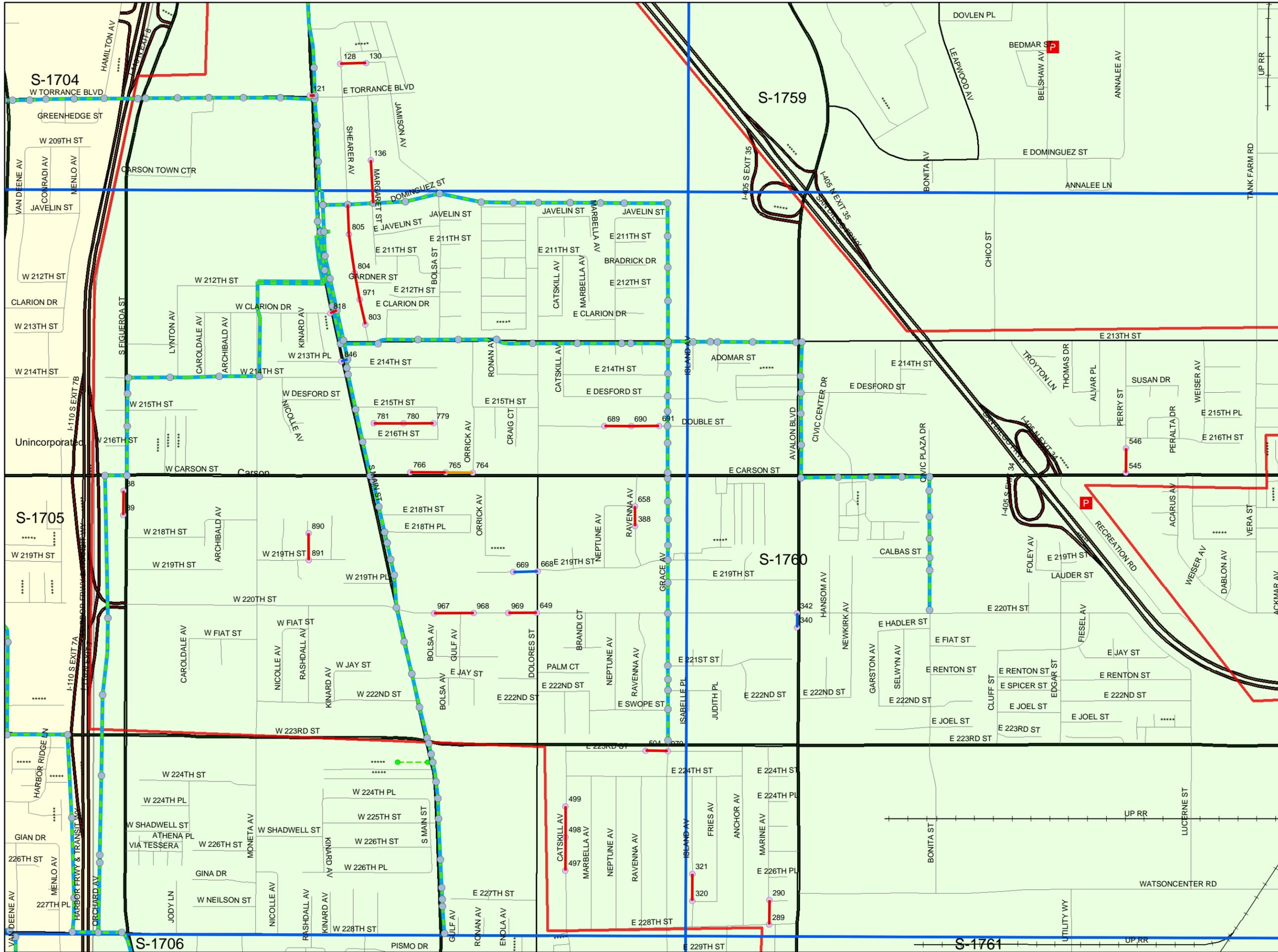
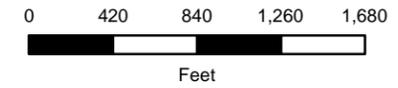


ENCLOSURE 3

CCTV PROJECT YOTV0910D

CARSON

LINING & POINT REPAIR PROJECTS



Legend

- Lining MH to MH
- Point Repair
- Point Repair & Lining

SMD Manholes

- ⊗ Other
- Standard
- ▲ DROP
- Shallow
- ◇ Trap
- ⊗ Siphon
- Ⓟ SMD Pump Stations
- Ⓜ SMD Treatment Plants

Maintained by Others:

- Trunk Sewerlines
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MAY 2013

ENCLOSURE 4:

Infrastructure Inspection Reports
for Grades 4 and 5



Inspection report

Date: 20100823	P.O.#: Y0TV0910D	Weather: 1 Dry	Surveyed By: J SALAS	section number: 783	PSR: 66414
Total Pipe Length:	Survey Customer: LACDPW	System Owner: CAR	Clean Date: 08/23/2010	Pre-Cleaned: J Jetting	Map Grid #: 1705

Street: 220TH ST	Flow Control: N Not Controlled	Start MH: 1705-0966A
City: CAR	Year Renewed:	End MH: 1705-0967
Location Code: C Light Highway	Tape/Media #:	pipe length: 218.09 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length:
Drain. Area:	Lining Method:
	Category:

Remark:: **NH 1705-966A NOT ON MAP**

1:495	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 1705-0966A NOT ON MAP		239	
	0.00	Water Level, 5 % of cross sectional area			M 2
	0.00	Water Mark, 5 % of cross sectional area			M 2
	7.13	Tap Factory Made Capped, at 09 o'clock, 6", within 8 inch: YES	00:01:38	240	
	12.70	Tap Factory Made Capped, at 03 o'clock, 6", within 8 inch: YES	00:01:55	241	
	16.57	Tap Break-In Active, at 03 o'clock, 6", within 8 inch: YES	00:02:06	242	
	58.23	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:03:19	243	
	63.80	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:03:34	244	
	92.61	Crack Circumferential, from 01 to 05 o'clock, within 8 inch: YES	00:04:30	245, b	S 1
	103.40	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:05:03	247	
	115.08	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:05:30	248	
	128.76	Crack Longitudinal, at 01 o'clock, within 8 inch: YES	00:06:04	249, b	S 2
	137.77	Crack Longitudinal, at 02 o'clock, within 8 inch: YES	00:06:33	251, b	S 2
	158.05	Tap Factory Made Active, at 10 o'clock, 4", within 8 inch: YES	00:07:14	253	
	163.68	Tap Factory Made Capped, at 03 o'clock, 6", within 8 inch: YES	00:07:30	254	
	166.96	Tap Factory Made Active, at 02 o'clock, 4", within 8 inch: YES	00:07:42	255	
	175.45	Tap Factory Made Capped, at 09 o'clock, 6", within 8 inch: YES	00:08:04	256	
	182.13	Broken Void Visible, at 03 o'clock, within 8 inch: YES	00:08:22	257, b	S 5
	182.99	Broken Void Visible, at 04 o'clock, within 8 inch: YES	00:08:39	259, b	S 5
	183.36	Broken Void Visible, from 12 to 01 o'clock, within 8 inch: YES	00:08:54	261, b	S 5
	204.53	Crack Longitudinal, at 03 o'clock, within 8 inch: YES	00:09:45	263, b	S 2

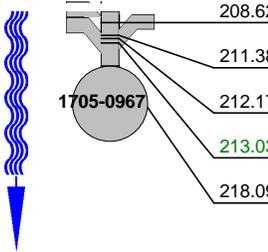


WinCan America, Inc.
 1730 Montano Road NE, Suite E
 Albuquerque, NM 87107
 Tel: (505) 341.0109, Fax: (505) 341.0133

Inspection report

Date: 20100823	P.O.#: Y0TV0910D	Weather: 1 Dry	Surveyed By: J SALAS	section number: 783	PSR: 66414
Total Pipe Length:	Survey Customer: LACDPW	System Owner: CAR	Clean Date: 08/23/2010	Pre-Cleaned: J Jetting	Map Grid #: 1705

1:495	position	observation	MPEG	photo	grade
	208.62	Tap Factory Made Capped, at 03 o'clock, 6", within 8 inch: YES	00:10:02	265	
	211.38	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:10:12	266	
	212.17	Tap Break-In Active, at 03 o'clock, 6", within 8 inch: YES	00:10:22	267	
	<u>213.03</u>	Crack Circumferential, from 12 to 08 o'clock, within 8 inch: YES	00:10:30	268, b	S 1
	218.09	Downstream Manhole, Survey Ends 1705-0967	00:14:50	270	



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5323	2200	23	4	27	2.88	2	2.7



Inspection report

Date: 20100825	P.O.#: Y0TV0910D	Weather: 1 Dry	Surveyed By: R RUIZ	section number: 848	PSR: 67369
Total Pipe Length: 242	Survey Customer: LACDPW	System Owner: CAR	Clean Date: 08/25/2010	Pre-Cleaned: J Jetting	Map Grid #: 1705

Street: FIGUEROA ST	Flow Control: N Not Controlled	Start MH: 1705-0039
City: CAR	Year Renewed:	End MH: 1705-0038
Location Code: A Main Highway - Urban	Tap/Media #:	pipe length: 199.52 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 242
Drain. Area: 0038/1705-0039/1705	Lining Method:
	Category:

Remark::

1:500	position	observation	MPEG	photo	grade
	0.00	Downstream Manhole, Survey Begins 1705-0039	00:00:06	43	
	<u>2.11</u>	Water Level, 10 % of cross sectional area	00:00:18		M 2
	<u>2.11</u>	Water Mark, 10 % of cross sectional area	00:00:18		M 2
	<u>2.11</u>	Broken Soil Visible, from 12 to 05 o'clock, within 8 inch: NO	00:00:42	44, b	S 5
	<u>2.11</u>	Tap Factory Made, at 10 o'clock, 4", within 8 inch: NO	00:01:03	46	
	55.30	Tap Factory Made Capped, at 10 o'clock, 4", within 8 inch: NO	00:02:18	47	
	106.58	Tap Factory Made Capped, at 10 o'clock, 4", within 8 inch: NO	00:03:22	48	
	149.34	Tap Break-In, at 10 o'clock, 4", within 8 inch: NO	00:04:21	49	
	160.78	Tap Factory Made Capped, at 10 o'clock, 4", within 8 inch: NO	00:04:48	50	
	160.78	Joint Angular Medium	00:04:56	51	S 1
	164.79	Water Level, Sag in pipe, 10 % of cross sectional area	00:05:09		M 2
	191.49	Broken, from 05 to 06 o'clock, within 8 inch: YES	00:05:48	52, b	S 4
	194.40	Tap Factory Made Capped, at 10 o'clock, 4", within 8 inch: NO	00:06:08	54	
	197.11	Broken, from 12 to 12 o'clock, within 8 inch: NO	00:06:26	55, b	S 4
	199.52	Upstream Manhole, Survey Ends 1705-0038	00:06:58	57	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5142	2300	14	6	20	3.5	2	2.86



Inspection report

Date: 20100816	P.O.#: Y0TV0910D	Weather: 1 Dry	Surveyed By: J SALAS	section number: 414	PSR: 66669
Total Pipe Length: 247	Survey Customer: LACDPW	System Owner: CAR	Clean Date: 08/16/2010	Pre-Cleaned: J Jetting	Map Grid #: 1705

Street: 219TH ST	Flow Control: N Not Controlled	Start MH: 1705-0668
City: CAR	Year Renewed:	End MH: 1705-0669
Location Code: C Light Highway	Tape/Media #:	pipe length: 298.06 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 247
Drain. Area: 0668/1705-0669/1705	Lining Method:
	Category:

Remark:: **A THE FLOW BROCKEN PIPE**

1:750	position	observation	MPEG	photo	grade
	0.00	Downstream Manhole, Survey Begins 1705-0668		171	
	0.00	Water Level, 5 % of cross sectional area			M 2
	0.00	Water Mark, 5 of cross sectional area			M 2
	22.03	Crack Multiple, from 09 to 03 o'clock, within 8 inch: YES	00:01:47	172, b	S 3
	78.61	Tap Break-In Active, at 10 o'clock, 4", within 8 inch: YES	00:03:20	174	
	81.15	Hole Void Visible, at 09 o'clock, within 8 inch: YES	00:03:31	175, b	S 5
	85.20	Crack Longitudinal, at 02 o'clock, within 8 inch: YES	00:03:51	177, b	S 2
	92.97	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:04:18	179	
	176.76	Tap Factory Made Active, at 02 o'clock, 6", within 8 inch: YES	00:06:50	180	
	225.29	Tap Break-In Active, at 10 o'clock, 4", within 8 inch: YES	00:08:34	181	
	227.46	Tap Factory Made Capped, at 09 o'clock, 6", within 8 inch: YES	00:08:43	182	
	260.14	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:09:53	183	
	283.65	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:10:35	184	
	290.04	Broken Void Visible, from 07 to 12 o'clock, within 8 inch: YES	00:11:00	185, b	S 5
	290.04	Fracture Multiple, from 12 to 12 o'clock, within 8 inch: YES	00:11:12	187, b	S 4
	293.49	Tap Factory Made Capped, at 03 o'clock, 6", within 8 inch: YES	00:11:38	189	
	298.06	Upstream Manhole, Survey Ends 1705-0669	00:12:00	190	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5241	2200	19	4	23	3.8	2	3.29



Inspection report

Date: 20101104	P.O.#: Y0TV0910D	Weather: 1 Dry	Surveyed By: B FUGATE	section number: 2840	PSR: 61550
Total Pipe Length: 143	Survey Customer: LACDPW	System Owner: CAR	Clean Date: 11/04/2010	Pre-Cleaned: J Jetting	Map Grid #: 1760

Street: 220TH ST	Flow Control: N Not Controlled	Start MH: 1760-0340
City: CAR	Year Renewed:	End MH: 1760-0342
Location Code: A Main Highway - Urban	Tape/Media #:	pipe length: 137.31 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 143
Drain. Area: 0340/1760-0342/1760	Lining Method:
	Category:

Remark: **BROKEN PIPE**

1:350	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 1760-0340		2	
	0.00	Water Level, 5 % of cross sectional area			M 2
	0.00	Water Mark, 5 % of cross sectional area			M 2
	0.49	Crack Multiple, from 07 to 05 o'clock, within 8 inch: YES	00:00:32	12, b	S 3
	6.03	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:00:49	14	
	47.13	Fracture Multiple, from 12 to 12 o'clock, within 8 inch: YES	00:01:52	10, b	S 4
	48.10	Broken Void Visible, from 12 to 12 o'clock, within 8 inch: YES	00:02:06	15, b	S 5
	51.21	Fracture Multiple, from 12 to 12 o'clock, within 8 inch: YES	00:02:32	17, b	S 4
	54.42	Tap Factory Made Capped, at 09 o'clock, 6", within 8 inch: YES	00:02:50	19	
	137.31	Downstream Manhole, Survey Ends 1760-0342	00:05:15	20	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5142	2200	16	4	20	4	2	3.33



Inspection report

Date: 20100827	P.O.#: Y0TV0910D	Weather: 1 Dry	Surveyed By: J SALAS	section number: 881	PSR: 66825
Total Pipe Length: 224	Survey Customer: LACDPW	System Owner: CAR	Clean Date: 08/27/2010	Pre-Cleaned: J Jetting	Map Grid #: 1705

Street: 223RD ST	Flow Control: N Not Controlled	Start MH: 1705-0504
City: CAR	Year Renewed:	End MH: 1705-0970
Location Code: C Light Highway	Tap Media #:	pipe length: 206.16 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 224
Drain. Area: 0504/1705-0970/1705	Lining Method:
	Category:

Remark:: **BROCKE PIPE**

1:525	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 1705-0504			172
	0.00	Water Level, 5 % of cross sectional area			M 2
	0.00	Water Mark, 5 % of cross sectional area			M 2
	38.12	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:02:18		173
	88.96	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:03:32		174
	130.84	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:04:36		175
	181.15	Water Level, 20 % of cross sectional area	00:05:55		M 2
	190.19	Crack Multiple, from 08 to 10 o'clock, within 8 inch: YES	00:06:13	176, b	S 3
	193.00	Fracture Multiple, from 12 to 12 o'clock, within 8 inch: YES	00:06:32	178, b	S 4
	194.34	Water Level, Sag in pipe, 40 % of cross sectional area	00:06:46		M 3
	197.25	Hole Soil Visible, from 09 to 02 o'clock, within 8 inch: YES	00:06:55	180, b	S 5
	206.16	Downstream Manhole, Survey Ends 1705-0970	00:07:34		182

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5141	3123	12	9	21	4	2.25	3



Inspection report

Date: 20100930	P.O.#: Y0TV0910D	Weather: 1 Dry	Surveyed By: R RUIZ	section number: 1913	PSR: 66593
Total Pipe Length: 276	Survey Customer: LACDPW	System Owner: CAR	Clean Date: 09/30/2010	Pre-Cleaned: J Jetting	Map Grid #: 1705

Street: CARSON ST	Flow Control: N Not Controlled	Start MH: 1705-0765
City: CAR	Year Renewed:	End MH: 1705-0764
Location Code: C Light Highway	Tap Media #:	pipe length: 142.15 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 276
Drain. Area: 0764/1705-0765/1705	Lining Method:
	Category:

Remark::

1:350	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 1705-0765	00:00:07	63	
	0.15	Water Level, 5 % of cross sectional area	00:00:21		M 2
	0.15	Water Mark, 5 % of cross sectional area	00:00:23		M 2
	3.50 S1	Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES, start	00:00:34		S 3
	11.90	Tap Factory Made, at 10 o'clock, 4", within 8 inch: NO	00:00:58	64	
	88.30	Tap Factory Made Capped, at 10 o'clock, 4", within 8 inch: NO	00:03:07	65	
	98.65	Fracture Multiple, from 04 to 08 o'clock, within 8 inch: YES	00:03:48	66, b	S 4
	137.00	Broken Soil Visible, from 04 to 08 o'clock, within 8 inch: YES	00:05:41	68, b	S 5
	142.15 F1	Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES, end	00:07:37		S 3
	142.15	Manhole, Remark: UNCHARTED MANHOLE	00:07:39		
	142.15	Downstream Manhole, Survey Ends 1705-0765a	00:07:52	70	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5141	2200	93	4	97	3.1	2	3.03



Inspection report

Date: 20100930	P.O.#: Y0TV0910D	Weather: 1 Dry	Surveyed By: R RUIZ	section number: 1914	PSR: 66594
Total Pipe Length: 361	Survey Customer: LACDPW	System Owner: CAR	Clean Date: 09/30/2010	Pre-Cleaned: J Jetting	Map Grid #: 1705

Street: CARSON ST	Flow Control: N Not Controlled	Start MH: 1705-0766
City: CAR	Year Renewed:	End MH: 1705-0765
Location Code: C Light Highway	Tape/Media #:	pipe length: 326.7 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 361
Drain. Area: 0765/1705-0766/1705	Lining Method:
	Category:

Remark::

1:800	position	observation	MPEG	photo	grade
	0.00	Downstream Manhole, Survey Begins 1705-0766	00:00:10	47	
	2.00	Water Level, 5 % of cross sectional area	00:00:28		M 2
	2.00	Water Mark, 5 % of cross sectional area	00:00:29		M 2
	3.40	Crack Multiple, from 01 to 08 o'clock, within 8 inch: YES	00:00:41	48, b	S 3
	6.25 S1	Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES, start	00:12:50	50, b	S 3
	38.10	Tap Factory Made, at 10 o'clock, 4", within 8 inch: NO	00:02:24	52	
	89.55	Tap Factory Made Capped, at 10 o'clock, 4", within 8 inch: NO	00:04:13	53	
	133.75	Fracture Multiple, from 04 to 09 o'clock, within 8 inch: YES	00:05:43	54, b	S 4
	140.80	Tap Factory Made Capped, at 10 o'clock, 4", within 8 inch: NO	00:06:18	56	
	192.60	Tap Factory Made Capped, at 10 o'clock, 4", within 8 inch: NO	00:07:47	57	
	242.00	Tap Factory Made Capped, at 10 o'clock, 4", within 8 inch: NO	00:09:19	58	
	277.55	Hole Soil Visible, at 07 o'clock, within 8 inch: YES	00:10:33	59, b	S 5
	284.05	Tap Factory Made, at 10 o'clock, 4", within 8 inch: NO	00:11:07	61	
	326.10 F1	Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES, end	00:12:29		S 3
	326.70	Downstream Manhole, Survey Ends 1705-0765	00:13:12	62	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5141	2200	204	4	208	3.04	2	3.01



Inspection report

Date: 20100910	P.O.#: Y0TV0910D	Weather: 1 Dry	Surveyed By: R RUIZ	section number: 1475	PSR: 61548
Total Pipe Length: 300	Survey Customer: LACDPW	System Owner: CAR	Clean Date: 09/10/2010	Pre-Cleaned: J Jetting	Map Grid #: 1760

Street: AVALON BV	Flow Control: N Not Controlled	Start MH: 1760-0338
City: CAR	Year Renewed:	End MH: 1760-0341
Location Code: C Light Highway	Tape/Media #:	pipe length: 325.24 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 300
Drain. Area: 0338/1760-0341/1760	Lining Method:
	Category:

Remark::

1:800	position	observation	MPEG	photo	grade
		1760-0338			
	0.00	Upstream Manhole, Survey Begins 1760-0338	00:00:10		
	0.00	Water Level, 5 % of cross sectional area	00:00:16		M 2
	0.00	Water Mark, 5 % of cross sectional area	00:00:21		M 2
	6.21	Crack Circumferential, from 02 to 05 o'clock, within 8 inch: YES	00:00:49	8, b	S 1
	7.31	Tap Factory Made, at 02 o'clock, 4", within 8 inch: NO	00:01:13	10	
	45.09	Crack Circumferential, from 01 to 06 o'clock, within 8 inch: YES	00:02:32	11, b	S 1
	49.40	Tap Factory Made Capped, at 02 o'clock, 4", within 8 inch: NO	00:03:04	13	
	88.27	Tap Break-In, at 02 o'clock, 4", within 8 inch: NO	00:04:19	14	
	92.48	Crack Multiple, from 10 to 05 o'clock, within 8 inch: YES	00:04:38	15, b	S 3
	116.53	Crack Multiple, from 10 to 04 o'clock, within 8 inch: YES	00:05:47	17, b	S 3
	148.39	Tap Factory Made Capped, at 02 o'clock, 4", within 8 inch: NO	00:07:10	19	
	195.78	Broken, at 12 o'clock, within 8 inch: YES	00:09:11	20, b	S 5
	195.78	Crack Multiple, from 09 to 05 o'clock, within 8 inch: YES	00:09:18	22, b	S 3
	198.09	Crack Longitudinal, at 10 o'clock, within 8 inch: YES	00:10:06	24, b	S 2
	202.60	Tap Factory Made, at 02 o'clock, 4", within 8 inch: NO	00:10:48	26	
	253.20	Tap Factory Made Capped, at 02 o'clock, 4", within 8 inch: NO	00:15:42	27	
	325.24	Downstream Manhole, Survey Ends 1760-0341	00:26:38	28	
		1760-0341			

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5133	2200	18	4	22	2.57	2	2.44



Inspection report

Date: 20100930	P.O.#: Y0TV0910D	Weather: 1 Dry	Surveyed By: R RUIZ	section number: 1919	PSR:
Total Pipe Length: 276	Survey Customer: LACDPW	System Owner: CAR	Clean Date:	Pre-Cleaned: J Jetting	Map Grid #:

Street: CARSON ST	Flow Control: N Not Controlled	Start MH: 1705-0765A
City: CAR	Year Renewed:	End MH: 1705-0764
Location Code: C Light Highway	Tap/Media #:	pipe length: 91.03 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 276
Drain. Area:	Lining Method:
	Category:

Remark::

1:225	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 1705-0765A		12	
	0.00	Water Level, (5%) of cross sectional area			M 2
	0.00	Water Mark, (5%) of cross sectional area			M 2
	13.10	Crack Multiple, from 07 to 04 o'clock, within 8 inch: YES		13	S 3
	14.09	Tap Factory Made Capped, at 10 o'clock, 4", within 8 inch: NO		14	
	91.03	Hole Void Visible, from 07 to 09 o'clock, within 8 inch: YES		15	S 5
	91.03	Survey Abandoned, (describe) CAMERA LOST DOWN HOLE IN PIPE			

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5131	2200	8	4	12	4	2	3



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Inspection report

Date: 20100930	P.O.#: Y0TV0910D	Weather: 1 Dry	Surveyed By: J SALAS	section number: 1920	PSR:
Total Pipe Length:	Survey Customer: LACDPW	System Owner:	Clean Date: 09/30/2010	Pre-Cleaned: H Heavy Cleaning	Map Grid #:

Street: CARSON ST	Flow Control: N Not Controlled	Start MH: 1705-0764
City: ZLAS	Year Renewed:	End MH: 1705-0765A
Location Code: B Main Highway - Suburban/Rural	Tape/Media #:	pipe length: 74.73 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length:
Drain. Area:	Lining Method:
	Category:

Remark.: **AGAINST THE FLOW**

1:200	position	observation	MPEG	photo	grade
	0.00	Downstream Manhole, Survey Begins 1705-0764		16	
	0.00	Water Level, 15 % of cross sectional area			M 2
	0.00	Water Mark, 20 % of cross sectional area			M 2
	74.73	Survey Abandoned, Remark: CAMERA UNDER WATER	00:14:31		17, b

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
0000	2200	0	4	4	0	2	2



Inspection report

Date: 20100903	P.O.#: Y0TV0910D	Weather: 1 Dry	Surveyed By: R RUIZ	section number: 1108	PSR: 61398
Total Pipe Length: 150	Survey Customer: LACDPW	System Owner: CAR	Clean Date: 09/03/2010	Pre-Cleaned: J Jetting	Map Grid #: 1760

Street: EASEMENT	Flow Control: N Not Controlled	Start MH: 1760-0466
City: CAR	Year Renewed:	End MH: 1760-0451
Location Code: D Easement/Right of Way	Tape/Media #:	pipe length: 146.7 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 150
Drain. Area: 0451/1760-0466/1760	Lining Method:
	Category:

Remark::

1:375	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 1760-0466	00:00:04	12	
	4.70	Water Level, 5 % of cross sectional area	00:00:25		M 2
	4.70	Water Mark, 10 % of cross sectional area	00:00:25		M 2
	18.50	Tap Factory Made, at 02 o'clock, 4", within 8 inch: NO	00:00:57	13	
	58.30	Tap Factory Made, at 02 o'clock, 4", within 8 inch: NO	00:02:32	14	
	59.20	Crack Circumferential, from 02 to 04 o'clock, within 8 inch: YES	00:02:47	15, b	S 1
	74.40	Tap Factory Made, at 10 o'clock, 4", within 8 inch: NO	00:03:47	17	
	75.30	Hole, at 12 o'clock, within 8 inch: YES	00:04:01	18, b	S 5
	86.00	Crack Circumferential, from 07 to 11 o'clock, within 8 inch: YES	00:05:13	20, b	S 1
	139.50	Crack Circumferential, from 09 to 02 o'clock, within 8 inch: YES	00:07:26	22, b	S 1
	146.70	Downstream Manhole, Survey Ends 1760-0451	00:10:09	24	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5113	2200	8	4	12	2	2	2



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Inspection report

Date: 20101109	P.O.#: Y0TV0910D	Weather: 1 Dry	Surveyed By: B FUGATE	section number: 2955	PSR: 66442
Total Pipe Length: 51	Survey Customer: LACDPW	System Owner: CAR	Clean Date: 11/09/2010	Pre-Cleaned: J Jetting	Map Grid #: 1705

Street: CARSON ST	Flow Control: N Not Controlled	Start MH: 1705-0867
City: CAR	Year Renewed:	End MH: 1705-0866
Location Code: A Main Highway - Urban	Tape/Media #:	pipe length: 45.19 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 51
Drain. Area: 0866/1705-0867/1705	Lining Method:
	Category:

Remark:: **NONE**

1:125	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 1705-0867			70
	0.00	Water Level, 5 % of cross sectional area			M 2
	0.00	Water Mark, 5 % of cross sectional area			M 2
	39.75	Broken Void Visible, from 11 to 05 o'clock, within 8 inch: YES	00:01:34	80, b	S 5
	43.83	Crack Circumferential, from 12 to 12 o'clock, within 8 inch: NO	00:02:05	82, b	S 1
	45.19	Downstream Manhole, Survey Ends 1705-0866	00:02:24	84	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5111	2200	6	4	10	3	2	2.5



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Inspection report

Date: 20101110	P.O.#: Y0TV0910D	Weather: 1 Dry	Surveyed By: B FUGATE	section number: 3123	PSR: 67447
Total Pipe Length: 57	Survey Customer: LACDPW	System Owner: CAR	Clean Date: 11/10/2010	Pre-Cleaned: J Jetting	Map Grid #: 1704

Street: TORRANCE BV	Flow Control: N Not Controlled	Start MH: 1704-0120
City: CAR	Year Renewed:	End MH: 1704-0121
Location Code: A Main Highway - Urban	Tape/Media #:	pipe length: 15.74 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 57
Drain. Area: 0120/1704-0121/1704	Lining Method:
	Category:

Remark:: **NONE**

1:50	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 1704-0120		48	
	0.00	Water Level, 5 % of cross sectional area			M 2
	0.00	Water Mark, 5 % of cross sectional area			M 2
	9.52	Broken Soil Visible, from 11 to 01 o'clock, within 8 inch: YES	00:00:59	49, b	S 5
	15.74	Downstream Manhole, Survey Ends 1704-0121	00:01:41	51	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5100	2200	5	4	9	5	2	3



Inspection report

Date: 20100811	P.O.#: Y0TV0910D	Weather: 1 Dry	Surveyed By: R RUIZ	section number: 349	PSR: 66551
Total Pipe Length: 31	Survey Customer: LACDPW	System Owner: CAR	Clean Date: 08/11/2010	Pre-Cleaned: J Jetting	Map Grid #: 1705

Street: MAIN ST	Flow Control: N Not Controlled	Start MH: 1705-0846
City: CAR	Year Renewed:	End MH: 1705-1006
Location Code: C Light Highway	Tape/Media #:	pipe length: 9.63 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 31
Drain. Area: 0846/1705-1006/1705	Lining Method:
	Category:

Remark::

1:25	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 1705-0846	00:00:09	77	
	2.51	Water Level, 5 % of cross sectional area	00:00:29		M 2
	2.61	Water Mark, 5 % of cross sectional area	00:00:49		M 2
	9.63	Obstacles External Pipe or Cable, 25 % of cross sectional area, from 05 to 07 o'clock	00:01:54	94	M 4
	9.63	Hole Void Visible, from 04 to 10 o'clock, within 8 inch: YES	00:01:57	95	S 5
	9.63	Survey Abandoned, Remark: EXTERNAL PIPE BLOCKING CAMERA	00:03:04	96	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5100	4122	5	8	13	5	2.67	3.25



Inspection report

Date: 20101101	P.O.#: Y0TV0910D	Weather: 1 Dry	Surveyed By: B FUGATE	section number: 2667	PSR: 66305
Total Pipe Length: 170	Survey Customer: LACDPW	System Owner: CAR	Clean Date: 11/01/2010	Pre-Cleaned: J Jetting	Map Grid #: 1705

Street: PRIVATE RD	Flow Control: N Not Controlled	Start MH: 1705-1015
City: CAR	Year Renewed:	End MH: 1705-1016
Location Code: D Easement/Right of Way	Tape/Media #:	pipe length: 167.05 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: ABSCP Pipe Length: 170
Drain. Area: 1015/1705-1016/1705	Lining Method:
	Category:

Remark:: **AGAINST FLOW**

1:425	position	observation	MPEG	photo	grade
	0.00	Downstream Manhole, Survey Begins 1705-1015		42	
	0.00	Water Level, 5 % of cross sectional area			M 2
	0.00	Water Mark, 5 % of cross sectional area			M 2
	81.73	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:02:38	43	
	82.99	Hole Soil Visible, from 01 to 05 o'clock, within 8 inch: YES	00:02:53	44, b	S 5
	82.99	Roots Fine Joint, at 04 o'clock, within 8 inch: YES	00:03:09	46, b	
	121.67	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:04:39	48	
	137.12	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:05:12	49	
	167.05	Upstream Manhole, Survey Ends 1705-1016	00:06:21	50	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5100	2200	5	4	9	5	2	3



Inspection report

Date: 20110106	P.O.#: Y0TV0910D	Weather: 1 Dry	Surveyed By: B FUGATE	section number: 4039	PSR: 61582
Total Pipe Length: 310	Survey Customer: LACDPW	System Owner: CAR	Clean Date: 01/06/2011	Pre-Cleaned: J Jetting	Map Grid #: 1760

Street: 213TH ST	Flow Control: N Not Controlled	Start MH: 1760-0215
City: CAR	Year Renewed:	End MH: 1760-0565
Location Code: C Light Highway	Tape/Media #:	pipe length: 298.53 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 310
Drain. Area: 0215/1760-0565/1760	Lining Method:
	Category:

Remark: **AGAINST FLOW**

1:750	position	observation	MPEG	photo	grade
	0.00	Downstream Manhole, Survey Begins 1760-0215		1	
	0.00	Water Level, 5 % of cross sectional area			M 2
	0.00	Water Mark, 5 % of cross sectional area			M 2
	60.45	Tap Factory Made Capped, at 03 o'clock, 6", within 8 inch: YES	00:02:08	9	
	113.31	Hole Void Visible, from 09 to 11 o'clock, within 8 inch: YES	00:04:04	10, b	S 5
	113.31	Infiltration Dripper, at 10 o'clock, within 8 inch: YES	00:04:07	12, b	M 3
	129.25	Tap Factory Made Capped, at 03 o'clock, 6", within 8 inch: YES	00:04:54	14	
	164.81	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:06:05	15	
	171.62	Tap Factory Made Capped, at 09 o'clock, 6", within 8 inch: YES	00:06:22	16	
	199.70	Tap Factory Made Capped, at 03 o'clock, 6", within 8 inch: YES	00:07:14	17	
	213.31	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:07:43	18	
	227.88	Water Level, Sag in pipe, 15 % of cross sectional area	00:08:26	19	M 2
	255.48	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:09:52	20	
	288.04	Tap Factory Made Capped, at 03 o'clock, 6", within 8 inch: YES	00:10:52	21	
	298.53	Upstream Manhole, Survey Ends 1760-0565	00:11:35	22	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5100	3123	5	9	14	5	2.25	2.8



Inspection report

Date: 20100914	P.O.#: Y0TV0910D	Weather: 1 Dry	Surveyed By: R RUIZ	section number: 1484	PSR: 61601
Total Pipe Length: 289	Survey Customer: LACDPW	System Owner: CAR	Clean Date: 09/14/2010	Pre-Cleaned: J Jetting	Map Grid #: 1760

Street: PRIVATE RD	Flow Control: N Not Controlled	Start MH: 1760-0606
City: CAR	Year Renewed:	End MH: 1760-0232
Location Code: G Parking Lot	Tape/Media #:	pipe length: 286.2 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 289
Drain. Area: 0232/1760-0606/1760	Lining Method:
	Category:

Remark::

1:700	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 1760-0606	00:00:08	13	
	7.20	Water Level, 15 % of cross sectional area	00:00:48		M 2
	7.20	Water Mark, 15 % of cross sectional area	00:00:48		M 2
	80.60	Water Level, 25 % of cross sectional area	00:03:10		M 2
	90.90	Water Level, 10 % of cross sectional area	00:03:45		M 2
	190.20	Hole Soil Visible, from 02 to 04 o'clock, within 8 inch: YES	00:08:19	14, b	S 5
	286.20	Downstream Manhole, Survey Ends 1760-0232	00:13:28	16	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5100	2400	5	8	13	5	2	2.6



Inspection report

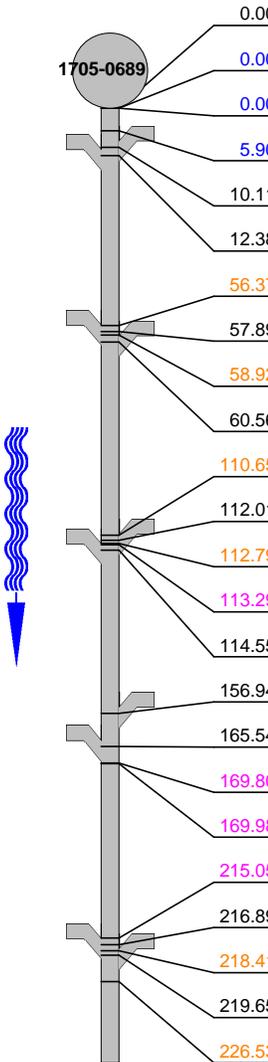
Date: 20100810	P.O.#: Y0TV0910D	Weather: 1 Dry	Surveyed By: J SALAS	section number: 157	PSR: 66637
Total Pipe Length: 273	Survey Customer: LACDPW	System Owner: CAR	Clean Date: 08/10/2010	Pre-Cleaned: J Jetting	Map Grid #: 1705

Street: DOUBLE ST	Flow Control: N Not Controlled	Start MH: 1705-0689
City: CAR	Year Renewed	End MH: 1705-0690
Location Code: C Light Highway	Tape/Media #:	pipe length: 306.39 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 273
Drain. Area: 0689/1705-0690/1705	Lining Method:
	Category:

Remark:: **FRACTURE'S ROOTS**

1:594	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 1705-0689		73	
	0.00	Water Level, 5 % of cross sectional area			M 2
	0.00	Water Mark, 5 % of cross sectional area			M 2
	5.90	Crack Longitudinal, at 04 o'clock, within 8 inch: YES	00:00:38	74, b	S 2
	10.11	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:00:59	76	
	12.38	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:01:09	77	
	56.37	Crack Multiple, from 12 to 06 o'clock, within 8 inch: YES	00:02:35	78, b	S 3
	57.89	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:02:50	80	
	58.92	Crack Multiple, from 06 to 12 o'clock, within 8 inch: YES	00:03:00	81, b	S 3
	60.56	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:03:13	83	
	110.65	Crack Multiple, from 08 to 11 o'clock, within 8 inch: YES	00:04:42	84, b	S 3
	112.01	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:04:54	86	
	112.79	Crack Multiple, from 11 to 06 o'clock, within 8 inch: YES	00:05:04	87, b	S 3
	113.29	Fracture Multiple, from 02 to 05 o'clock, within 8 inch: YES	00:05:13	89, b	S 4
	114.55	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:05:27	91	
	156.94	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:06:47	92	
	165.54	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:07:09	93	
	169.80	Fracture Multiple, from 02 to 05 o'clock, within 8 inch: YES	00:07:23	94, b	S 4
	169.98	Fracture Multiple, from 07 to 09 o'clock, within 8 inch: YES	00:07:40	96, b	S 4
	215.05	Fracture Multiple, from 04 to 08 o'clock, within 8 inch: YES	00:09:06	98, b	S 4
	216.89	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:09:20	100	
	218.41	Crack Multiple, from 07 to 11 o'clock, within 8 inch: YES	00:09:29	101, b	S 3
	219.65	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:09:42	103	
	226.53	Crack Multiple, from 02 to 09 o'clock, within 8 inch: YES	00:10:00	104, b	S 3

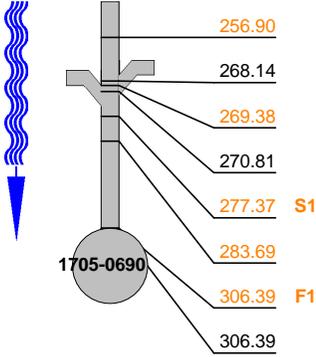




Inspection report

Date: 20100810	P.O.#: Y0TV0910D	Weather: 1 Dry	Surveyed By: J SALAS	section number: 157	PSR: 66637
Total Pipe Length: 273	Survey Customer: LACDPW	System Owner: CAR	Clean Date: 08/10/2010	Pre-Cleaned: J Jetting	Map Grid #: 1705

1:594	position	observation	MPEG	photo	grade
	<u>256.90</u>	Crack Multiple, from 03 to 10 o'clock, within 8 inch: YES	00:11:02	106, b	S 3
	<u>268.14</u>	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:11:36	108	
	<u>269.38</u>	Crack Multiple, from 01 to 05 o'clock, within 8 inch: YES	00:11:45	109, b	S 3
	<u>270.81</u>	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:11:57	111	
	<u>277.37</u> S1	Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES, start	00:12:15	112, b	S 3
	<u>283.69</u>	Fracture Longitudinal, at 09 o'clock, within 8 inch: YES	00:12:44	114, b	S 3
	<u>306.39</u> F1	Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES, end	00:13:33		S 3
	<u>306.39</u>	Downstream Manhole, Survey Ends 1705-0690	00:13:47	116	



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
443B	2200	63	4	67	3.15	2	3.05



Inspection report

Date: 20100831	P.O.#: Y0TV0910D	Weather: 1 Dry	Surveyed By: J SALAS	section number: 938	PSR: 66608
Total Pipe Length: 303	Survey Customer: LACDPW	System Owner: CAR	Clean Date: 08/31/2010	Pre-Cleaned: J Jetting	Map Grid #: 1705

Street: ALLEY	Flow Control: N Not Controlled	Start MH: 1705-0779
City: CAR	Year Renewed:	End MH: 1705-0780
Location Code: H Alley	Tape/Media #:	pipe length: 335.26 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 303
Drain. Area: 0779/1705-0780/1705	Lining Method:
	Category:

Remark:: **NONE**

1:561	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 1705-0779		1	
	0.00	Water Level, 5 % of cross sectional area			M 2
	0.00	Water Mark, 5 % of cross sectional area			M 2
	9.80	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:01:21	2	
	12.11	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:01:34	3	
	19.50	Fracture Longitudinal, at 05 o'clock, within 8 inch: YES	00:01:58	4, b	S 3
	19.58	Fracture Multiple, from 05 to 09 o'clock, within 8 inch: YES	00:02:14	6, b	S 4
	40.95	Crack Multiple, from 03 to 06 o'clock, within 8 inch: YES	00:03:04	8, b	S 3
	51.47	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:03:36	10	
	53.78	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:03:46	11	
	58.32	Crack Longitudinal, at 04 o'clock, within 8 inch: YES	00:04:02	12, b	S 2
	92.65	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:05:05	14	
	93.27	Fracture Multiple, from 04 to 11 o'clock, within 8 inch: YES	00:05:13	15, b	S 4
	95.16	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:05:26	17	
	95.87	Fracture Multiple, from 02 to 09 o'clock, within 8 inch: YES	00:05:34	18, b	S 4
	108.26	Crack Multiple, from 03 to 09 o'clock, within 8 inch: YES	00:06:05	20, b	S 3
	130.13	Crack Multiple, from 12 to 03 o'clock, within 8 inch: YES	00:06:50	22, b	S 3
	131.12	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:07:02	24	
	132.46 S1	Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES, start	00:07:11	25, b	S 3
	133.64	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:07:24	27	
	166.85	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:08:23	28	
	172.30	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:08:39	29	
	217.43	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:09:54	30	
	220.01	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:10:05	31	



Inspection report

Date: 20100831	P.O.#: Y0TV0910D	Weather: 1 Dry	Surveyed By: J SALAS	section number: 938	PSR: 66608
Total Pipe Length: 303	Survey Customer: LACDPW	System Owner: CAR	Clean Date: 08/31/2010	Pre-Cleaned: J Jetting	Map Grid #: 1705

1:561	position	observation	MPEG	photo	grade
	253.04	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:11:07	32	
	264.77	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:11:37	33	
	294.52	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:12:46	34	
	300.29	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:13:09	35	
	333.19	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:14:06	36	
	333.73 F1	Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES, end	00:14:13		S 3
	335.26	Downstream Manhole, Survey Ends 1705-0780	00:14:35	37	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
433H	2200	146	4	150	3.04	2	3



Inspection report

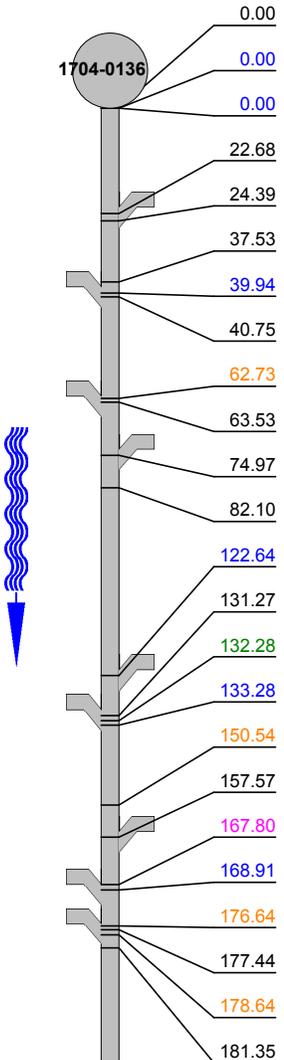
Date: 20100803	P.O.#: Y0TV0910D	Weather: 1 Dry	Surveyed By: J SALAS	section number: 8	PSR: 67463
Total Pipe Length: 433	Survey Customer: LACDPW	System Owner: CAR	Clean Date: 08/03/2010	Pre-Cleaned: J Jetting	Map Grid #: 1705

Street: MARGARET ST	Flow Control: N Not Controlled	Start MH: 1704-0136
City: CAR	Year Renewed:	End MH: 1705-0998
Location Code: C Light Highway	Tape/Media #:	pipe length: 342.03 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 433
Drain. Area: 0998/1705-0136/1704	Lining Method:
	Category:

Remark:: **NONE**

1:495	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 1704-0136	00:00:00	66	
	0.00	Water Level, 5 % of cross sectional area	00:00:00		M 2
	0.00	Water Mark, 5 % of cross sectional area	00:00:00		M 2
	22.68	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:01:24	67	
	24.39	Roots Fine Joint, from 08 to 09 o'clock, within 8 inch: YES	00:01:51	68, b	
	37.53	Roots Fine Joint, from 12 to 12 o'clock, within 8 inch: YES	00:02:34	70, b	
	39.94	Tap Factory Made Defective, at 03 o'clock, 6", within 8 inch: YES, Remark: ROOTS	00:02:50	72	M 2
	40.75	Roots Fine Joint, from 12 to 12 o'clock, within 8 inch: YES	00:02:59	73, b	
	62.73	Crack Multiple, from 02 to 05 o'clock, within 8 inch: YES	00:03:50	75, b	S 3
	63.53	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:04:14	77	
	74.97	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:04:52	78	
	82.10	Roots Fine Joint, at 03 o'clock, within 8 inch: YES	00:05:15	79, b	
	122.64	Tap Factory Made Defective, at 09 o'clock, 6", within 8 inch: YES, Remark: ROOTS	00:06:24	81, b	M 2
	131.27	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:07:05	83	
	132.28	Crack Circumferential, from 12 to 06 o'clock, within 8 inch: YES	00:07:17	84, b	S 1
	133.28	Crack Longitudinal, at 12 o'clock, within 8 inch: YES	00:08:08	86, b	S 2
	150.54	Crack Multiple, from 01 to 05 o'clock, within 8 inch: YES	00:09:07	88, b	S 3
	157.57	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:09:45	90	
	167.80	Fracture Multiple, from 07 to 10 o'clock, within 8 inch: YES	00:10:11	91, b	S 4
	168.91	Tap Factory Made Defective, at 03 o'clock, 6", within 8 inch: YES, Remark: ROOTS	00:10:41	93	M 2
	176.64	Crack Multiple, from 12 to 06 o'clock, within 8 inch: YES	00:11:20	94, b	S 3
	177.44	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:11:32	96	
	178.64	Crack Multiple, from 05 to 07 o'clock, within 8 inch: YES	00:11:51	97, b	S 3
	181.35	Roots Fine Joint, from 03 to 09 o'clock, within 8 inch: YES	00:12:29	99, b	





Inspection report

Date: 20100803	P.O.#: Y0TV0910D	Weather: 1 Dry	Surveyed By: J SALAS	section number: 8	PSR: 67463
Total Pipe Length: 433	Survey Customer: LACDPW	System Owner: CAR	Clean Date: 08/03/2010	Pre-Cleaned: J Jetting	Map Grid #: 1705

1:495	position	observation	MPEG	photo	grade
	219.19	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:13:35	101	
	226.41	Fracture Multiple, from 01 to 05 o'clock, within 8 inch: YES	00:14:09	102, b	S 4
	228.02	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:14:47	104	
	269.07	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:16:14	105	
	295.66	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:17:15	106	
	307.10	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:17:48	107	
	339.32	Broken, from 02 to 05 o'clock, within 8 inch: YES	00:19:52	108, b	S 4
	342.03	Downstream Manhole, Survey Ends 1705-0998	00:20:53	110	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4334	2500	27	10	37	3	2	2.64



Inspection report

Date: 20100827	P.O.#: Y0TV0910D	Weather: 1 Dry	Surveyed By: J SALAS	section number: 901	PSR: 61532
Total Pipe Length: 274	Survey Customer: LACDPW	System Owner: CAR	Clean Date: 08/27/2010	Pre-Cleaned: J Jetting	Map Grid #: 1760

Street: ISLAND AV	Flow Control: N Not Controlled	Start MH: 1760-0320
City: CAR	Year Renewed:	End MH: 1760-0321
Location Code: C Light Highway	Tape/Media #:	pipe length: 208.06 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 274
Drain. Area: 0320/1760-0321/1760	Lining Method:
	Category:

Remark: **FRACTURE**

1:525	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 1760-0320		5	
	0.00	Water Level, 5 % of cross sectional area			M 2
	0.00	Water Mark, 5 % of cross sectional area			M 2
	7.27	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:01:32	6	
	23.83	Crack Multiple, from 10 to 01 o'clock, within 8 inch: YES	00:02:11	7, b	S 3
	39.17	Fracture Multiple, from 06 to 10 o'clock, within 8 inch: YES	00:02:51	9, b	S 4
	55.44	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	00:03:35	11	
	71.82	Crack Longitudinal, at 03 o'clock, within 8 inch: YES	00:04:10	12, b	S 2
	77.73	Crack Longitudinal, at 03 o'clock, within 8 inch: YES	00:04:29	14, b	S 2
	103.19	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	00:05:24	16	
	120.25	Fracture Multiple, from 06 to 10 o'clock, within 8 inch: YES	00:06:00	17, b	S 4
	120.69	Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES	00:06:15	19, b	S 3
	123.01	Fracture Multiple, from 04 to 06 o'clock, within 8 inch: YES	00:06:35	21, b	S 4
	151.39	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:07:32	23	
	154.18	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:07:43	24	
	155.98	Crack Multiple, from 03 to 06 o'clock, within 8 inch: YES	00:07:52	25, b	S 3
	189.06	Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES	00:08:58	27, b	S 3
	202.44	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:09:34	29	
	204.93	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:09:46	30	
	208.06	Downstream Manhole, Survey Ends 1760-0321	00:10:15	31	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4334	2200	28	4	32	3.11	2	2.91



Inspection report

Date: 20100818	P.O.#: Y0TV0910D	Weather: 1 Dry	Surveyed By: R RUIZ	section number: 566	PSR: 66463
Total Pipe Length: 271	Survey Customer: LACDPW	System Owner: CAR	Clean Date: 08/18/2010	Pre-Cleaned: J Jetting	Map Grid #: 1705

Street: RASHDALL AV	Flow Control: N Not Controlled	Start MH: 1705-0890
City: CAR	Year Renewed:	End MH: 1705-0891
Location Code: C Light Highway	Tape/Media #:	pipe length: 270.97 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 271
Drain. Area: 0890/1705-0891/1705	Lining Method:
	Category:

Remark::

1:594	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 1705-0890	00:00:06	88	
	0.00	Water Level, 10 % of cross sectional area	00:00:24		M 2
	0.00	Water Mark, 10 % of cross sectional area	00:00:26		M 2
	24.89	Crack Longitudinal, at 03 o'clock, within 8 inch: YES	00:01:17	89, b	S 2
	49.08	Tap Factory Made, at 09 o'clock, 6", within 8 inch: NO	00:02:17	91	
	79.29	Tap Factory Made, at 03 o'clock, 6", within 8 inch: NO	00:03:19	92	
	96.45	Tap Factory Made, at 03 o'clock, 6", within 8 inch: NO	00:03:51	93	
	98.15	Crack Multiple, from 06 to 07 o'clock, within 8 inch: YES	00:04:12	94, b	S 3
	107.99	Crack Circumferential, from 05 to 07 o'clock, within 8 inch: YES	00:04:42	96, b	S 1
	111.60	Crack Multiple, from 05 to 07 o'clock, within 8 inch: YES	00:04:59	98, b	S 3
	130.07	Tap Factory Made, at 09 o'clock, 6", within 8 inch: NO	00:05:44	100	
	138.80	Crack Longitudinal, at 04 o'clock, within 8 inch: YES	00:06:07	101, b	S 2
	146.73	Tap Factory Made, at 09 o'clock, 6", within 8 inch: NO	00:06:33	103	
	152.25	Crack Multiple, from 07 to 05 o'clock, within 8 inch: YES	00:06:51	104, b	S 3
	179.65	Crack Multiple, from 07 to 05 o'clock, within 8 inch: YES	00:07:39	106, b	S 3
	183.36	Crack Multiple, from 07 to 03 o'clock, within 8 inch: YES	00:08:09	108, b	S 3
	187.17	Tap Factory Made, at 03 o'clock, 6", within 8 inch: NO	00:08:42	110	
	198.51 S1	Fracture Multiple, from 05 to 07 o'clock, within 8 inch: YES, start	00:09:11	111, b	S 4
	202.93 F1	Fracture Multiple, from 05 to 07 o'clock, within 8 inch: YES, end	00:09:27		S 4
	209.45	Crack Multiple, from 04 to 08 o'clock, within 8 inch: YES	00:09:52	113, b	S 3
	212.56	Crack Multiple, from 05 to 07 o'clock, within 8 inch: YES	00:10:08	115, b	S 3
	232.94	Crack Circumferential, from 11 to 03 o'clock, within 8 inch: YES	00:10:49	117, b	S 1
	236.35	Crack Multiple, from 12 to 07 o'clock, within 8 inch: YES	00:11:07	119, b	S 3
	239.96	Crack Spiral, from 08 to 11 o'clock, within 8 inch: YES	00:11:29	121, b	S 2



Inspection report

Date: 20100818	P.O.#: Y0TV0910D	Weather: 1 Dry	Surveyed By: R RUIZ	section number: 566	PSR: 66463
Total Pipe Length: 271	Survey Customer: LACDPW	System Owner: CAR	Clean Date: 08/18/2010	Pre-Cleaned: J Jetting	Map Grid #: 1705

1:594	position	observation	MPEG	photo	grade
	259.83	Crack Circumferential, from 08 to 12 o'clock, within 8 inch: YES	00:12:08	123, b	S 1
	266.66	Crack Multiple, from 11 to 04 o'clock, within 8 inch: YES	00:12:30	125, b	S 3
	270.97	Downstream Manhole, Survey Ends 1705-0891	00:13:02	127	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4239	2200	44	4	48	2.59	2	2.53



Inspection report

Date: 20100804	P.O.#: Y0TV0910D	Weather: 1 Dry	Surveyed By: R RUIZ	section number: 35	PSR: 67456
Total Pipe Length: 260	Survey Customer: LACDPW	System Owner: CAR	Clean Date: 08/04/2010	Pre-Cleaned: J Jetting	Map Grid #: 1704

Street: GENEVIEVE ST	Flow Control: N Not Controlled	Start MH: 1704-0128
City: CAR	Year Renewed:	End MH: 1704-0130
Location Code: C Light Highway	Tape/Media #:	pipe length: 226.31 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 260
Drain. Area: 0128/1704-0130/1704	Lining Method:
	Category:

Remark::

1:575	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 1704-0128	00:00:22		
	1.91	Water Level, 10 % of cross sectional area	00:00:56		M 2
	1.91	Water Mark, 10 % of cross sectional area	00:00:57		M 2
	1.91	Fracture Multiple, from 04 to 08 o'clock, within 8 inch: YES	00:00:58	33, b	S 4
	3.21	Fracture Multiple, from 02 to 10 o'clock, within 8 inch: YES	00:01:29	35, b	S 4
	52.89	Tap Factory Made, at 10 o'clock, 6", within 8 inch: NO	00:02:57	37	
	57.21	Crack Multiple, from 11 to 04 o'clock, within 8 inch: YES	00:03:15	38, b	S 3
	69.85	Crack Spiral, from 01 to 02 o'clock, within 8 inch: YES	00:04:06	40, b	S 2
	87.41	Crack Multiple, from 07 to 02 o'clock, within 8 inch: YES	00:04:55	42, b	S 3
	104.17	Tap Factory Made, at 02 o'clock, 6", within 8 inch: NO	00:05:58	44	
	108.19	Crack Multiple, from 07 to 11 o'clock, within 8 inch: YES	00:06:20	45, b	S 3
	109.59	Tap Factory Made, at 10 o'clock, 6", within 8 inch: NO	00:06:41	47	
	117.12	Crack Longitudinal, at 03 o'clock, within 8 inch: YES	00:07:04	48	S 2
	157.67	Tap Factory Made, at 02 o'clock, 6", within 8 inch: NO	00:08:00	49	
	172.52	Tap Factory Made Capped, at 10 o'clock, 6", within 8 inch: NO	00:08:36	50	
	186.37	Crack Multiple, from 04 to 10 o'clock, within 8 inch: YES	00:09:09	51, b	S 3
	193.09	Tap Factory Made, at 02 o'clock, 6", within 8 inch: NO	00:09:46	53	
	194.70	Crack Multiple, from 11 to 01 o'clock, within 8 inch: YES	00:10:08	54, b	S 3
	218.79	Crack Circumferential, from 11 to 01 o'clock, within 8 inch: YES	00:11:01	56, b	S 1
	222.10	Crack Multiple, from 05 to 07 o'clock, within 8 inch: YES	00:11:28	58, b	S 3
	226.31	Downstream Manhole, Survey Ends 1704-0130	00:12:11	60	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4236	2200	31	4	35	2.82	2	2.69



Inspection report

Date: 20100803	P.O.#: Y0TV0910D	Weather: 1 Dry	Surveyed By: J SALAS	section number: 6	PSR: 66503
Total Pipe Length: 254	Survey Customer: LACDPW	System Owner: CAR	Clean Date: 08/03/2010	Pre-Cleaned: J Jetting	Map Grid #: 1705

Street: SHEARER AV	Flow Control: N Not Controlled	Start MH: 1705-0971
City: CAR	Year Renewed:	End MH: 1705-0803
Location Code: C Light Highway	Tape/Media #:	pipe length: 262.74 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 254
Drain. Area: 0803/1705-0971/1705	Lining Method:
	Category:

Remark: **A THE FLOW**

1:650	position	observation	MPEG	photo	grade
		1705-0971			
	0.00	Downstream Manhole, Survey Begins 1705-0971	00:00:00	189	
	0.00	Water Level, 10 % of cross sectional area	00:00:00		M 2
	0.00	Water Mark, 10 % of cross sectional area	00:00:00		M 2
	0.00	Vermin Cockroach, within 8 inch: YES	00:00:47	190, b	M 1
	5.92	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:01:32	192	
	26.50	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	00:02:19	193	
	34.42	Crack Longitudinal, at 03 o'clock, within 8 inch: YES	00:02:40	194, b	S 2
	35.33	Tap Factory Made Active, at 02 o'clock, 6", within 8 inch: YES	00:02:52	196	
	36.03	Fracture Multiple, from 01 to 05 o'clock, within 8 inch: YES	00:03:12	197, b	S 4
	104.28	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:05:28	199	
	116.32	Tap Factory Made Active, at 02 o'clock, 6", within 8 inch: YES	00:06:00	200	
	146.93	Crack Circumferential, from 08 to 10 o'clock, within 8 inch: YES	00:07:16	201, b	S 1
	164.89	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:08:20	203	
	167.40	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	00:08:45	204	
	218.89	Fracture Multiple, from 07 to 11 o'clock, within 8 inch: YES	00:10:22	205, b	S 4
	236.75	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	00:11:28	207	
	262.74	Upstream Manhole, Survey Ends 1705-0803	00:13:11	208	
		1705-0803			

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4221	2211	11	5	16	2.75	1.67	2.29



Inspection report

Date: 20100804	P.O.#: Y0TV0910D	Weather: 1 Dry	Surveyed By: J SALAS	section number: 68	PSR: 66969
Total Pipe Length: 300	Survey Customer: LACDPW	System Owner: CAR	Clean Date: 08/04/2010	Pre-Cleaned: J Jetting	Map Grid #: 1705

Street: SHEARER AV	Flow Control: N Not Controlled	Start MH: 1705-0805
City: CAR	Year Renewed:	End MH: 1705-TRNK
Location Code: C Light Highway	Tape/Media #:	pipe length: 343.24 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 300
Drain. Area: 0805/1705-TRNK/1705	Lining Method:
	Category:

Remark:: **CRACK**

1:561	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 1705-0805		159	
	0.00	Water Level, 5 % of cross sectional area			M 2
	0.00	Water Mark, 5 % of cross sectional area			M 2
	2.80	Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES	00:00:57	160, b	S 3
	26.45	Tap Break-In Active, at 02 o'clock, 4", within 8 inch: YES	00:02:04	162	
	34.40	Crack Multiple, from 02 to 04 o'clock, within 8 inch: YES	00:02:24	163, b	S 3
	41.80	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:02:48	165	
	52.15	Crack Multiple, from 03 to 06 o'clock, within 8 inch: YES	00:03:16	166, b	S 3
	79.43	Crack Multiple, from 02 to 05 o'clock, within 8 inch: YES	00:04:23	168, b	S 3
	80.31	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:04:44	170	
	85.92	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:05:03	171	
	98.82	Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES	00:05:33	172, b	S 3
	105.19	Crack Multiple, from 03 to 09 o'clock, within 8 inch: YES	00:06:03	174, b	S 3
	111.38	Crack Multiple, from 04 to 08 o'clock, within 8 inch: YES	00:06:34	176, b	S 3
	129.22	Crack Multiple, from 01 to 09 o'clock, within 8 inch: YES	00:07:16	178, b	S 3
	132.39 S1	Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES, start	00:07:35	180, b	S 3
	136.69	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:07:55	182	
	138.43	Fracture Multiple, from 02 to 05 o'clock, within 8 inch: YES	00:08:15	183, b	S 4
	139.10	Tap Factory Made Active, at 02 o'clock, 6", within 8 inch: YES	00:08:30	185	
	153.68	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:09:04	186	
	156.14	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:09:15	187	
	198.00	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:11:02	188	
	233.54	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	00:12:07	189	



Inspection report

Date: 20100804	P.O.#: Y0TV0910D	Weather: 1 Dry	Surveyed By: J SALAS	section number: 68	PSR: 66969
Total Pipe Length: 300	Survey Customer: LACDPW	System Owner: CAR	Clean Date: 08/04/2010	Pre-Cleaned: J Jetting	Map Grid #: 1705

1:561	position	observation	MPEG	photo	grade		
		<p>Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES</p> <p>Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES</p> <p>Water Level, 10 % of cross sectional area</p> <p>Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES, end</p> <p>Downstream Manhole, Survey Ends 1705-0376</p>	<p>00:12:30</p> <p>00:12:50</p> <p>00:15:01</p> <p>00:16:41</p> <p>00:16:51</p>	<p>190</p> <p>191</p> <p></p> <p></p> <p>192, b</p>	<p></p> <p></p> <p>M 2</p> <p>S 3</p>		
QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
413I	2300	154	6	160	3.02	2	2.96



Inspection report

Date: 20101015	P.O.#: Y0TV0910D	Weather: 1 Dry	Surveyed By: RALPH	section number: 1976	PSR:
Total Pipe Length:	Survey Customer: LACDPW	System Owner:	Clean Date: 10/04/2010	Pre-Cleaned: J Jetting	Map Grid #:

Street: CARSON ST	Flow Control: N Not Controlled	Start MH: 1705-0762
City: CAR	Year Renewed:	End MH: 1705-0683
Location Code: A Main Highway - Urban	Tape/Media #:	pipe length: 296.38 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length:
Drain. Area: 0683/1705-0762/1705	Lining Method:
	Category:

Remark::

1:725	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 1705-0762	00:00:11	79	
	0.00	Water Level, 15 of cross sectional area	00:00:31		M 2
	0.00	Water Mark, 15 % of cross sectional area	00:00:33		M 2
	7.41	Tap Factory Made, at 10 o'clock, 4", within 8 inch: NO	00:01:08	80	
	44.79	Crack Circumferential, from 12 to 03 o'clock, within 8 inch: YES	00:02:36	81, b	S 1
	52.10	Tap Factory Made Capped, at 10 o'clock, 4", within 8 inch: NO	00:03:20	83	
	71.24	Crack Multiple, from 09 to 04 o'clock, within 8 inch: YES	00:04:17	84, b	S 3
	99.80	Tap Factory Made Capped, at 10 o'clock, 4", within 8 inch: NO	00:05:55	86	
	132.26	Tap Factory Made, at 10 o'clock, 4", within 8 inch: NO	00:07:25	87	
	161.72	Crack Multiple, from 11 to 04 o'clock, within 8 inch: YES	00:08:40	88, b	S 3
	183.86	Tap Factory Made, at 10 o'clock, 4", within 8 inch: NO	00:10:02	90	
	193.68	Tap Factory Made Capped, at 10 o'clock, 4", within 8 inch: NO	00:10:49	91	
	203.70	Crack Longitudinal, at 04 o'clock, within 8 inch: YES	00:11:26	92, b	S 2
	208.01	Tap Factory Made Capped, at 10 o'clock, 4", within 8 inch: NO	00:12:17	94	
	256.00 S1	Crack Multiple, from 07 to 05 o'clock, within 8 inch: YES, start	00:13:58	95, b	S 3
	262.62	Tap Factory Made, at 10 o'clock, 4", within 8 inch: NO	00:14:36	97	
	290.77 F1	Crack Multiple, from 07 to 05 o'clock, within 8 inch: YES, end	00:15:53	98	S 3
	296.38	Downstream Manhole, Survey Ends 1705-0683	00:16:26	99	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
3921	2200	30	4	34	2.73	2	2.62



Inspection report

Date: 20100818	P.O.#: Y0TV0910D	Weather: 1 Dry	Surveyed By: J SALAS	section number: 737	PSR: 66975
Total Pipe Length: 200	Survey Customer: LACDPW	System Owner: CAR	Clean Date: 08/18/2010	Pre-Cleaned: J Jetting	Map Grid #: 1705

Street: RAVENNA AV	Flow Control: N Not Controlled	Start MH: 1705-0658
City: CAR	Year Renewed:	End MH: 1705-0388
Location Code: C Light Highway	Tape/Media #:	pipe length: 217.84 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 200
Drain. Area: 0388/1705-0658/1705	Lining Method:
	Category:

Remark:: **CRACKS**

1:550	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 1705-0658		1	
	0.00	Water Level, 10 % of cross sectional area	00:01:13		M 2
	0.00	Water Mark, 10 % of cross sectional area	00:01:16		M 2
	7.51	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	00:01:34	2	
	20.78	Crack Multiple, from 09 to 03 o'clock, within 8 inch: YES	00:02:13	3, b	S 3
	23.86	Crack Multiple, from 03 to 09 o'clock, within 8 inch: YES	00:02:40	5, b	S 3
	36.42	Crack Multiple, from 02 to 05 o'clock, within 8 inch: YES	00:03:22	7, b	S 3
	45.27	Crack Multiple, from 03 to 09 o'clock, within 8 inch: YES	00:03:54	9, b	S 3
	48.50	Crack Longitudinal, at 03 o'clock, within 8 inch: YES	00:04:16	11, b	S 2
	54.39 S1	Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES, start	00:04:37	13, b	S 3
	56.10	Tap Factory Made Capped, at 09 o'clock, 6", within 8 inch: YES	00:05:00	15	
	88.05	Fracture Multiple, from 03 to 05 o'clock, within 8 inch: YES	00:06:02	16, b	S 4
	113.93	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:07:03	18	
	153.11	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:08:17	19	
	158.66	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:08:37	20	
	210.18	Tap Factory Made Capped, at 09 o'clock, 6", within 8 inch: YES	00:10:20	21	
	212.83	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:10:37	22	
	217.84	Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES, end	00:11:18	23	S 3
	217.84	Downstream Manhole, Survey Ends 1705-0388	00:11:22	24	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
413F	2200	117	4	121	3	2	2.95



Inspection report

Date: 20100804	P.O.#: Y0TV0910D	Weather: 1 Dry	Surveyed By: J SALAS	section number: 73	PSR: 66504
Total Pipe Length: 400	Survey Customer: LACDPW	System Owner: CAR	Clean Date: 08/04/2010	Pre-Cleaned: J Jetting	Map Grid #: 1705

Street: SHEARER AV	Flow Control: N Not Controlled	Start MH: 1705-0804
City: CAR	Year Renewed:	End MH: 1705-0805
Location Code: C Light Highway	Tape/Media #:	pipe length: 350.02 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 400
Drain. Area: 0804/1705-0805/1705	Lining Method:
	Category:

Remark:: **CRACK**

1:561	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 1705-0804		106	
	0.00	Water Level, 5 % of cross sectional area			M 2
	0.00	Water Mark, 10 % of cross sectional area			M 2
	11.96	Crack Multiple, from 08 to 02 o'clock, within 8 inch: YES	00:01:00	107, b	S 3
	12.77	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:01:12	109	
	13.64	Crack Multiple, from 03 to 09 o'clock, within 8 inch: YES	00:01:23	110, b	S 3
	24.09	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:02:10	112	
	38.74	Tap Factory Made Active, at 02 o'clock, 6", within 8 inch: YES	00:02:39	113	
	56.56	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:03:18	114	
	63.95	Crack Multiple, from 03 to 09 o'clock, within 8 inch: YES	00:03:36	115, b	S 3
	79.09	Crack Longitudinal, at 03 o'clock, within 8 inch: YES	00:04:38	117, b	S 2
	95.16	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:05:31	119	
	99.86 S1	Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES, start	00:05:53	120, b	S 3
	128.12	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	00:07:06	122	
	139.61	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:07:48	123	
	143.61	Fracture Multiple, from 03 to 09 o'clock, within 8 inch: YES	00:08:21	124, b	S 4
	160.25	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:09:07	126	
	168.16 F1	Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES, end	00:09:28		S 3
	176.78	Crack Multiple, from 08 to 04 o'clock, within 8 inch: YES	00:09:47	127, b	S 3
	180.74	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	00:10:11	129	
	197.66	Crack Multiple, from 02 to 06 o'clock, within 8 inch: YES	00:11:05	130, b	S 3
	209.28	Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES	00:11:53	132, b	S 3
	230.72	Crack Multiple, from 09 to 02 o'clock, within 8 inch: YES	00:12:52	134, b	S 3
	231.68	Tap Factory Made Defective, at 09 o'clock, 6", within 8 inch: YES, Remark: DEBRIS	00:13:08	136	M 2



Inspection report

Date: 20100804	P.O.#: Y0TV0910D	Weather: 1 Dry	Surveyed By: J SALAS	section number: 73	PSR: 66504
Total Pipe Length: 400	Survey Customer: LACDPW	System Owner: CAR	Clean Date: 08/04/2010	Pre-Cleaned: J Jetting	Map Grid #: 1705

1:561	position	observation	MPEG	photo	grade
	249.27	Tap Factory Made Active, at 02 o'clock, 6", within 8 inch: YES	00:13:58	137	
	250.96	Crack Multiple, from 08 to 11 o'clock, within 8 inch: YES	00:14:14	138, b	S 3
	259.91	Crack Multiple, from 04 to 08 o'clock, within 8 inch: YES	00:14:48	140, b	S 3
	262.79	Crack Multiple, from 08 to 04 o'clock, within 8 inch: YES	00:15:18	142, b	S 3
	264.12	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:15:35	144	
	266.43	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:15:48	145	
	294.80	Crack Multiple, from 04 to 08 o'clock, within 8 inch: YES	00:16:47	146, b	S 3
	318.98	Crack Multiple, from 03 to 09 o'clock, within 8 inch: YES	00:17:45	148, b	S 3
	320.43	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:17:59	150	
	327.67	Crack Longitudinal, at 08 o'clock, within 8 inch: YES	00:18:22	151, b	S 2
	336.64	Crack Multiple, from 03 to 09 o'clock, within 8 inch: YES	00:19:03	153, b	S 3
	342.95	Crack Multiple, from 10 to 02 o'clock, within 8 inch: YES	00:19:34	155, b	S 3
	344.02	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:19:48	157	
	350.02	Downstream Manhole, Survey Ends 1705-0805	00:20:20	158	



Inspection report

Date: 20100824	P.O.#: Y0TV0910D	Weather: 1 Dry	Surveyed By: J SALAS	section number: 805	PSR: 66819
Total Pipe Length: 310	Survey Customer: LACDPW	System Owner: CAR	Clean Date: 08/24/2010	Pre-Cleaned: J Jetting	Map Grid #: 1705

Street: CATSKILL AV	Flow Control: N Not Controlled	Start MH: 1705-0498
City: CAR	Year Renewed:	End MH: 1705-0499
Location Code: C Light Highway	Tape/Media #:	pipe length: 350.2 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 310
Drain. Area: 0498/1705-0499/1705	Lining Method:
	Category:

Remark:: **ROOTS - CRACK**

1:495	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 1705-0498		166	
	0.00	Water Level, 5 % of cross sectional area			M 2
	0.00	Water Mark, 5 % of cross sectional area			M 2
	11.38	Crack Multiple, from 08 to 04 o'clock, within 8 inch: YES	00:00:59	167, b	S 3
	35.75	Roots Fine Joint, from 09 to 03 o'clock, within 8 inch: YES	00:01:43	169, b	
	39.48	Crack Multiple, from 07 to 12 o'clock, within 8 inch: YES	00:01:56	171, b	S 3
	40.69	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES, Remark: DEBRIS	00:02:08	173, b	
	42.17	Crack Multiple, from 12 to 06 o'clock, within 8 inch: YES	00:02:19	175, b	S 3
	43.24	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:02:32	177	
	52.84	Roots Fine Joint, from 09 to 03 o'clock, within 8 inch: YES	00:02:52	178, b	
	71.23	Roots Fine Joint, from 12 to 12 o'clock, within 8 inch: YES, start	00:03:26	180, b	
	88.26	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:03:59	182	
	90.63	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:04:10	183	
	95.08	Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES	00:04:24	184, b	S 3
	107.33	Crack Circumferential, from 12 to 12 o'clock, within 8 inch: YES	00:04:51	186, b	S 1
	131.47	Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES	00:05:36	188, b	S 3
	137.75	Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES, start	00:05:54	190, b	S 3
	141.00	Fracture Multiple, from 01 to 07 o'clock, within 8 inch: YES	00:06:13	192, b	S 4
	142.04	Roots Ball Lateral, at 09 o'clock, 10 %, within 8 inch: YES	00:06:28	194, b	M 4
	142.04	Tap Factory Made Defective, at 09 o'clock, 6", within 8 inch: YES, Remark: Roots	00:06:33	196	M 2
	144.49	Roots Ball Lateral, at 03 o'clock, 10 %, within 8 inch: YES	00:06:42	197, b	M 4
	144.49	Tap Factory Made Defective, at 03 o'clock, 6", within 8 inch: YES, Remark: Roots	00:06:48	199	M 2
	189.60	Tap Factory Made Defective, at 09 o'clock, 6", within 8 inch: YES, Remark: DEBRIS	00:08:05	200, b	M 2
	192.25	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:08:16	202	



Inspection report

Date: 20100824	P.O.#: Y0TV0910D	Weather: 1 Dry	Surveyed By: J SALAS	section number: 805	PSR: 66819
Total Pipe Length: 310	Survey Customer: LACDPW	System Owner: CAR	Clean Date: 08/24/2010	Pre-Cleaned: J Jetting	Map Grid #: 1705

1:495	position	observation	MPEG	photo	grade
	220.97 F2	Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES, end	00:09:04	203	S 3
	232.77 F1	Roots Fine Joint, from 12 to 12 o'clock, within 8 inch: YES, end	00:09:25	204	
	240.16	Tap Factory Made Defective, at 09 o'clock, 6", within 8 inch: YES, Remark: DEBRIS	00:09:40	205, b	M 2
	242.88	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:09:53	207	
	290.99	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:11:11	208	
	293.33	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:11:22	209	
	340.34	Crack Multiple, from 06 to 12 o'clock, within 8 inch: YES	00:12:40	210, b	S 3
	341.68	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:12:53	212	
	344.19	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:13:03	213	
	350.20	Downstream Manhole, Survey Ends 1705-0499	00:13:26	214	



Inspection report

Date: 20100810	P.O.#: Y0TV0910D	Weather: 1 Dry	Surveyed By: J SALAS	section number: 158	PSR: 66638
Total Pipe Length: 280	Survey Customer: LACDPW	System Owner: CAR	Clean Date: 08/10/2010	Pre-Cleaned: J Jetting	Map Grid #: 1705

Street: DOUBLE ST	Flow Control: N Not Controlled	Start MH: 1705-0690
City: CAR	Year Renewed:	End MH: 1705-0691
Location Code: C Light Highway	Tape/Media #:	pipe length: 267.78 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 280
Drain. Area: 0690/1705-0691/1705	Lining Method:
	Category:

Remark:: **NONE**

1:495	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 1705-0690		117	
	0.00	Water Level, 10 % of cross sectional area			M 2
	0.00	Water Mark, 10 % of cross sectional area			M 2
	6.03	Crack Multiple, from 12 to 06 o'clock, within 8 inch: YES	00:00:50	118, b	S 3
	7.29	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:01:03	120	
	10.01	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:01:16	121	
	11.00	Crack Longitudinal, at 09 o'clock, within 8 inch: YES	00:01:25	122, b	S 2
	32.52	Fracture Multiple, from 05 to 08 o'clock, within 8 inch: YES	00:02:13	124, b	S 4
	54.07	Crack Circumferential, from 01 to 05 o'clock, within 8 inch: YES	00:03:05	126, b	S 1
	56.51	Crack Multiple, from 04 to 10 o'clock, within 8 inch: YES	00:03:18	128, b	S 3
	58.26	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:03:34	130	
	60.93	Tap Factory Made Defective, at 03 o'clock, 6", within 8 inch: YES, Remark: Roots	00:03:46	131, b	M 2
	68.20	Crack Longitudinal, at 02 o'clock, within 8 inch: YES	00:04:16	133, b	S 2
	71.37	Crack Longitudinal, at 02 o'clock, within 8 inch: YES	00:04:32	135, b	S 2
	111.23	Crack Multiple, from 04 to 08 o'clock, within 8 inch: YES	00:06:00	137, b	S 3
	112.41	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:06:20	139	
	114.84	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:06:31	140	
	137.81	Crack Multiple, from 03 to 06 o'clock, within 8 inch: YES	00:07:23	141, b	S 3
	163.50	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:09:19	143	
	164.91	Crack Multiple, from 03 to 05 o'clock, within 8 inch: YES	00:09:33	144, b	S 3
	165.85	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:09:45	146	
	173.18	Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES	00:10:08	147, b	S 3
	194.79	Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES, end	00:10:59		S 3



Inspection report

Date: 20100810	P.O.#: Y0TV0910D	Weather: 1 Dry	Surveyed By: J SALAS	section number: 158	PSR: 66638
Total Pipe Length: 280	Survey Customer: LACDPW	System Owner: CAR	Clean Date: 08/10/2010	Pre-Cleaned: J Jetting	Map Grid #: 1705

1:495	position	observation	MPEG	photo	grade
	211.35	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:11:34	149	
	211.78	Crack Multiple, from 04 to 08 o'clock, within 8 inch: YES	00:11:41	150, b	S 3
	213.84	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:11:57	152	
	245.69	Crack Multiple, from 03 to 06 o'clock, within 8 inch: YES	00:13:01	153, b	S 3
	247.03	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:13:13	155	
	247.97	Crack Multiple, from 08 to 12 o'clock, within 8 inch: YES	00:13:22	156, b	S 3
	249.60	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:13:35	158	
	259.34	Crack Multiple, from 05 to 08 o'clock, within 8 inch: YES	00:14:01	159, b	S 3
	267.78	Downstream Manhole, Survey Ends 1705-0691	00:14:48	161	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
413A	2300	44	6	50	2.75	2	2.63



Inspection report

Date: 20100831	P.O.#: Y0TV0910D	Weather: 1 Dry	Surveyed By: J SALAS	section number: 939	PSR: 66609
Total Pipe Length: 301	Survey Customer: LACDPW	System Owner: CAR	Clean Date: 08/31/2010	Pre-Cleaned: J Jetting	Map Grid #: 1705

Street: ALLEY	Flow Control: N Not Controlled	Start MH: 1705-0780
City: CAR	Year Renewed:	End MH: 1705-0781
Location Code: C Light Highway	Tape/Media #:	pipe length: 295.87 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 301
Drain. Area: 0780/1705-0781/1705	Lining Method:
	Category:

Remark:: **FRACTURE**

1:627	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 1705-0780		38	
	0.00	Water Level, 5 % of cross sectional area			M 2
	0.00	Water Mark, 5 % of cross sectional area			M 2
	4.26	Crack Multiple, from 08 to 11 o'clock, within 8 inch: YES	00:01:07	39, b	S 3
	5.30	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:01:19	41	
	35.11	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:02:15	42	
	38.80	Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES	00:02:27	43, b	S 3
	53.02	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:03:00	45	
	72.63	Crack Multiple, from 01 to 05 o'clock, within 8 inch: YES	00:03:42	46, b	S 3
	73.67	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:03:53	48	
	82.12	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:04:14	49	
	101.77	Crack Longitudinal, at 10 o'clock, within 8 inch: YES	00:04:57	50, b	S 2
	115.09	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:05:46	52	
	123.75	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:06:21	53	
	158.89	Tap Factory Made Active, at 02 o'clock, 6", within 8 inch: YES	00:07:26	54	
	161.34	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:07:36	55	
	165.70	Crack Multiple, from 10 to 03 o'clock, within 8 inch: YES	00:07:53	56, b	S 3
	193.96	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:08:52	58	
	196.36	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:09:04	59	
	215.76	Crack Multiple, from 04 to 08 o'clock, within 8 inch: YES	00:09:45	60, b	S 3
	238.06	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:10:35	62	
	239.35	Crack Multiple, from 07 to 12 o'clock, within 8 inch: YES	00:10:44	63, b	S 3
	240.34	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:10:56	65	

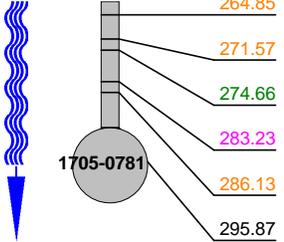


Inspection report

Date: 20100831	P.O.#: Y0TV0910D	Weather: 1 Dry	Surveyed By: J SALAS	section number: 939	PSR: 66609
Total Pipe Length: 301	Survey Customer: LACDPW	System Owner: CAR	Clean Date: 08/31/2010	Pre-Cleaned: J Jetting	Map Grid #: 1705

1:627	position	observation	MPEG	photo	grade
	<u>264.85</u>	Crack Multiple, from 09 to 04 o'clock, within 8 inch: YES	00:11:43	66, b	S 3
	<u>271.57</u>	Crack Multiple, from 08 to 12 o'clock, within 8 inch: YES	00:12:07	68, b	S 3
	<u>274.66</u>	Crack Circumferential, from 01 to 05 o'clock, within 8 inch: YES	00:12:26	70, b	S 1
	<u>283.23</u>	Broken, from 05 to 08 o'clock, within 8 inch: YES	00:12:55	72, b	S 4
	<u>286.13</u>	Crack Multiple, from 09 to 03 o'clock, within 8 inch: YES	00:13:21	74, b	S 3
	<u>295.87</u>	Downstream Manhole, Survey Ends 1705-0781	00:14:13	76	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4139	2200	34	4	38	2.83	2	2.71





Inspection report

Date: 20100810	P.O.#: Y0TV0910D	Weather: 1 Dry	Surveyed By: J SALAS	section number: 166	PSR:
Total Pipe Length: 289	Survey Customer: LACDPW	System Owner: CAR	Clean Date: 08/10/2010	Pre-Cleaned: J Jetting	Map Grid #: 1705

Street: DOUBLE ST	Flow Control: N Not Controlled	Start MH: 1705-1061
City: CAR	Year Renewed:	End MH: 1705-0688
Location Code: C Light Highway	Tape/Media #:	pipe length: 282.52 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 289
Drain. Area: 0688/1705-1061/1705	Lining Method:
	Category:

Remark:: **NONE**

1:561	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 1705-1061		1	
	0.00	Water Level, 5 % of cross sectional area			M 2
	0.00	Water Mark, 5 % of cross sectional area			M 2
	4.58	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:01:14	2	
	7.21	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:01:25	3	
	20.14	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:01:58	4	
	36.35	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:02:32	5	
	55.85	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:03:12	6	
	70.91	Fracture Multiple, from 01 to 04 o'clock, within 8 inch: YES	00:03:48	7, b	S 4
	72.26	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:04:02	9	
	83.56	Crack Multiple, from 01 to 06 o'clock, within 8 inch: YES	00:04:27	10, b	S 3
	88.38	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:04:48	12	
	116.86	Crack Multiple, from 11 to 06 o'clock, within 8 inch: YES	00:05:44	13, b	S 3
	123.84	Crack Multiple, from 11 to 05 o'clock, within 8 inch: YES	00:06:06	15, b	S 3
	124.07	Roots Fine Joint, at 12 o'clock, within 8 inch: YES	00:06:16	17, b	
	149.09	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:07:08	19	
	153.03	Roots Medium Joint, from 06 to 11 o'clock, 15 %, within 8 inch: YES	00:07:23	20, b	
	154.76	Crack Multiple, from 07 to 02 o'clock, within 8 inch: YES	00:09:09	24, b	S 3
	155.04	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	00:08:38	22, b	
	180.33	Crack Multiple, from 12 to 06 o'clock, within 8 inch: YES	00:09:51	26, b	S 3
	181.33	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:10:06	28	
	191.11	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:10:28	29	
	202.29	Crack Multiple, from 08 to 11 o'clock, within 8 inch: YES	00:11:04	30, b	S 3

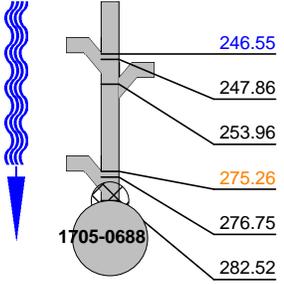


Inspection report

Date: 20100810	P.O.#: Y0TV0910D	Weather: 1 Dry	Surveyed By: J SALAS	section number: 166	PSR:
Total Pipe Length: 289	Survey Customer: LACDPW	System Owner: CAR	Clean Date: 08/10/2010	Pre-Cleaned: J Jetting	Map Grid #: 1705

1:561	position	observation	MPEG	photo	grade
	<u>246.55</u>	Crack Longitudinal, at 03 o'clock, within 8 inch: YES	00:12:24	32, b	S 2
	<u>247.86</u>	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:12:49	34	
	<u>253.96</u>	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:13:09	35	
	<u>275.26</u>	Crack Multiple, from 11 to 06 o'clock, within 8 inch: YES	00:13:55	36, b	S 3
	<u>276.75</u>	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:14:09	38	
	<u>282.52</u>	Downstream Manhole, Survey Ends 0688	00:14:34	39	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4137	2200	27	4	31	3	2	2.82





Inspection report

Date: 20100830	P.O.#: Y0TV0910D	Weather: 1 Dry	Surveyed By: J SALAS	section number: 885	PSR: 61501
Total Pipe Length: 247	Survey Customer: LACDPW	System Owner: CAR	Clean Date: 08/30/2010	Pre-Cleaned: J Jetting	Map Grid #: 1760

Street: MARINE AV	Flow Control: N Not Controlled	Start MH: 1760-0289
City: CAR	Year Renewed:	End MH: 1760-0290
Location Code: C Light Highway	Tape/Media #:	pipe length: 246.04 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 247
Drain. Area: 0289/1760-0290/1760	Lining Method:
	Category:

Remark: **ROOTS - CRACK**

1:600	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 1760-0289		205	
	0.00	Water Level, 10 % of cross sectional area			M 2
	0.00	Water Mark, 10 % of cross sectional area			M 2
	19.16	Crack Multiple, from 09 to 02 o'clock, within 8 inch: YES	00:01:45	206, b	S 3
	25.98	Crack Multiple, from 01 to 04 o'clock, within 8 inch: YES	00:02:14	208, b	S 3
	52.34	Crack Multiple, from 07 to 12 o'clock, within 8 inch: YES	00:03:11	210, b	S 3
	70.17	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:03:57	212	
	77.88	Water Level, 15 % of cross sectional area	00:04:17		M 2
	81.40	Fracture Circumferential, from 07 to 09 o'clock, within 8 inch: YES	00:04:27	213, b	S 2
	115.06	Crack Multiple, from 07 to 11 o'clock, within 8 inch: YES	00:05:38	215, b	S 3
	115.99	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:05:51	217	
	127.47	Crack Multiple, from 11 to 05 o'clock, within 8 inch: YES	00:06:31	218, b	S 3
	140.68	Crack Circumferential, from 02 to 05 o'clock, within 8 inch: YES	00:07:06	220, b	S 1
	170.52	Crack Multiple, from 07 to 11 o'clock, within 8 inch: YES	00:08:10	222, b	S 3
	171.64	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:08:25	224	
	179.68	Crack Circumferential, from 12 to 05 o'clock, within 8 inch: YES	00:08:45	225, b	S 1
	195.42	Roots Ball Joint, from 08 to 10 o'clock, 10 %, within 8 inch: YES	00:09:19	227, b	
	196.34	Crack Multiple, from 07 to 12 o'clock, within 8 inch: YES	00:09:29	229, b	S 3
	211.42	Roots Fine Joint, from 03 to 09 o'clock, within 8 inch: YES	00:11:59	231, b	
	225.93	Fracture Multiple, from 09 to 12 o'clock, within 8 inch: YES	00:12:35	233, b	S 4
	227.09	Roots Ball Lateral, at 09 o'clock, 10 %, within 8 inch: YES	00:12:50	235, b	M 4
	227.09	Tap Factory Made Defective, at 09 o'clock, 6", within 8 inch: YES, Remark: Roots	00:13:01	237, b	M 2
	241.38	Crack Longitudinal, at 10 o'clock, within 8 inch: YES	00:13:42	239, b	S 2
	246.04	Downstream Manhole, Survey Ends 1760-0290	00:14:08	241	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4137	4124	31	12	43	2.58	2.4	2.53



Inspection report

Date: 20100824	P.O.#: Y0TV0910D	Weather: 1 Dry	Surveyed By: J SALAS	section number: 804	PSR: 66818
Total Pipe Length: 339	Survey Customer: LACDPW	System Owner: CAR	Clean Date: 08/24/2010	Pre-Cleaned: J Jetting	Map Grid #: 1705

Street: CATSKILL AV	Flow Control: N Not Controlled	Start MH: 1705-0497
City: CAR	Year Renewed:	End MH: 1705-0498
Location Code: C Light Highway	Tape/Media #:	pipe length: 347.02 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 339
Drain. Area: 0497/1705-0498/1705	Lining Method:
	Category:

Remark:: **ROOTS CRACK**

1:561	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 1705-0497		101	
	0.00	Water Level, 5 % of cross sectional area			M 2
	0.00	Water Mark, 5 % of cross sectional area			M 2
	15.47	Roots Fine Joint, from 12 to 03 o'clock, within 8 inch: YES	00:01:29	102, b	
	21.62	Roots Fine Joint, from 10 to 02 o'clock, within 8 inch: YES	00:01:45	104, b	
	36.21	Roots Fine Joint, from 12 to 12 o'clock, within 8 inch: YES, start	00:02:16	106, b	
	38.99	Roots Fine Joint, at 09 o'clock, within 8 inch: YES	00:02:29	108, b	
	41.41	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:03:14	110	
	81.90	Crack Multiple, from 09 to 11 o'clock, within 8 inch: YES	00:04:24	111, b	S 3
	89.23	Roots Fine Lateral, at 09 o'clock, within 8 inch: YES	00:04:58	113, b	M 1
	89.23	Tap Factory Made Defective, at 09 o'clock, 6", within 8 inch: YES, Remark: Roots	00:05:05	115	M 2
	91.78	Roots Fine Lateral, at 03 o'clock, within 8 inch: YES	00:05:19	116, b	M 1
	91.78	Tap Factory Made Defective, at 03 o'clock, 6", within 8 inch: YES, Remark: Roots	00:05:25	118, b	M 2
	140.17	Roots Fine Lateral, at 09 o'clock, within 8 inch: YES	00:07:02	120, b	M 1
	140.17	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:07:09	122	
	142.58	Roots Ball Lateral, at 03 o'clock, 10 %, within 8 inch: YES	00:07:21	123, b	M 4
	142.58	Tap Factory Made Defective, at 03 o'clock, 6", within 8 inch: YES	00:07:28	125	M 2
	146.93	Crack Circumferential, from 07 to 10 o'clock, within 8 inch: YES	00:07:45	126, b	S 1
	156.05	Crack Multiple, from 09 to 03 o'clock, within 8 inch: YES	00:08:06	128, b	S 3
	177.16	Crack Circumferential, from 07 to 10 o'clock, within 8 inch: YES	00:08:56	130, b	S 1
	189.81	Crack Multiple, from 06 to 01 o'clock, within 8 inch: YES	00:09:25	132, b	S 3
	190.77	Tap Factory Made Abandoned, at 09 o'clock, 6", within 8 inch: YES, Remark: DEBRIS	00:09:39	134, b	
	193.06	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:09:53	136	
	216.27	Crack Circumferential, from 12 to 12 o'clock, within 8 inch: YES	00:10:32	137, b	S 1



Inspection report

Date: 20100824	P.O.#: Y0TV0910D	Weather: 1 Dry	Surveyed By: J SALAS	section number: 804	PSR: 66818
Total Pipe Length: 339	Survey Customer: LACDPW	System Owner: CAR	Clean Date: 08/24/2010	Pre-Cleaned: J Jetting	Map Grid #: 1705

1:561	position	observation	MPEG	photo	grade
	241.39	Tap Factory Made Abandoned, at 09 o'clock, 6", within 8 inch: YES, Remark: Roots	00:11:22	139, b	
	243.90	Roots Ball Lateral, at 03 o'clock, 10 %, within 8 inch: YES	00:11:40	141, b	M 4
	243.90	Tap Factory Made Defective, at 03 o'clock, 6", within 8 inch: YES	00:11:46	143, b	M 2
	245.50	Crack Multiple, from 09 to 05 o'clock, within 8 inch: YES	00:12:01	145, b	S 3
	275.49	Fracture Multiple, from 12 to 12 o'clock, within 8 inch: YES	00:12:57	147, b	S 4
	287.28	Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES	00:13:27	149, b	S 3
	288.51	Tap Factory Made Defective, at 09 o'clock, 6", within 8 inch: YES, Remark: Roots	00:13:40	151, b	M 2
	288.51	Roots Fine Lateral, at 09 o'clock, within 8 inch: YES	00:13:45	153, b	M 1
	291.06	Roots Medium Lateral, at 03 o'clock, 10, within 8 inch: YES	00:13:57	155, b	M 3
	291.06	Tap Factory Made Defective, at 03 o'clock, 6", within 8 inch: YES, Remark: Roots GREASE	00:14:18	157, b	M 2
	312.79	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:14:59	159	
	341.94	Roots Ball Lateral, at 09 o'clock, 10 %, within 8 inch: YES	00:15:49	160, b	M 4
	341.94	Tap Factory Made Defective, at 09 o'clock, 6", within 8 inch: YES, Remark: Roots	00:15:54	162	M 2
	344.34	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:16:04	163	
	344.91 F1	Roots Fine Joint, from 12 to 12 o'clock, within 8 inch: YES, end	00:16:11	164	
	347.02	Downstream Manhole, Survey Ends 1705-0498	00:16:27	165	



Inspection report

Date: 20100810	P.O.#: Y0TV0910D	Weather: 1 Dry	Surveyed By: R RUIZ	section number: 377	PSR: 66435
Total Pipe Length: 256	Survey Customer: LACDPW	System Owner: CAR	Clean Date: 08/10/2010	Pre-Cleaned: J Jetting	Map Grid #: 1705

Street: 214TH ST	Flow Control: N Not Controlled	Start MH: 1705-0859
City: CAR	Year Renewed:	End MH: 1705-0860
Location Code: C Light Highway	Tape/Media #:	pipe length: 296.77 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 256
Drain. Area: 0859/1705-0860/1705	Lining Method:
	Category:

Remark::

1:725	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 1705-0859	00:00:04	124	
	3.61	Water Level, 5 % of cross sectional area	00:00:20		M 2
	3.61	Water Mark, 10 % of cross sectional area	00:00:20		M 2
	9.53	Crack Circumferential, from 01 to 04 o'clock, within 8 inch: YES	00:00:38	125, b	S 1
	10.84	Tap Factory Made, at 02 o'clock, 6", within 8 inch: NO	00:00:51	127	
	71.96	Crack Circumferential, from 01 to 05 o'clock, within 8 inch: YES	00:02:41	128, b	S 1
	73.66	Tap Factory Made, at 02 o'clock, 6", within 8 inch: NO	00:02:57	130	
	134.68	Crack Multiple, from 11 to 04 o'clock, within 8 inch: YES	00:05:09	131, b	S 3
	136.19	Tap Factory Made, at 02 o'clock, 6", within 8 inch: NO	00:05:31	133	
	177.94	Tap Factory Made Capped, at 02 o'clock, 6", within 8 inch: NO	00:06:56	134	
	216.68	Tap Factory Made, at 02 o'clock, 6", within 8 inch: NO	00:08:40	135	
	248.09	Broken, at 11 o'clock, within 8 inch: YES	00:09:47	136, b	S 5
	248.09	Crack Circumferential, from 08 to 11 o'clock, within 8 inch: YES	00:09:50	138, b	S 1
	296.77	Downstream Manhole, Survey Ends 1705-0860	00:11:39	140	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5131	2200	11	4	15	2.2	2	2.14



Inspection report

Date: 20100823	P.O.#: Y0TV0910D	Weather: 1 Dry	Surveyed By: J SALAS	section number: 784	PSR: 66415
Total Pipe Length:	Survey Customer: LACDPW	System Owner: CAR	Clean Date: 08/23/2010	Pre-Cleaned: J Jetting	Map Grid #:

Street: 220TH ST	Flow Control: N Not Controlled	Start MH: 1705-0967A
City: CAR	Year Renewed:	End MH: 1705-0968
Location Code: C Light Highway	Tape/Media #:	pipe length: 126.01 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: MH 967A NOT ON MAP
Drain. Area: 0967/1705-0968/1705	Lining Method:
	Category:

Remark:: **MH 1705-967A NOT ON MAP**

1:325	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 1705-0967A NOT ON MAP		271	
	0.00	Water Level, 5 % of cross sectional area			M 2
	0.00	Water Mark, 10 % of cross sectional area			M 2
	12.27	Tap Factory Made Capped, at 03 o'clock, 6", within 8 inch: YES	00:01:30	272	
	16.69	Crack Longitudinal, at 05 o'clock, within 8 inch: YES	00:01:46	273, b	S 2
	45.39	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:02:45	275	
	53.03	Fracture Longitudinal, at 05 o'clock, within 8 inch: YES	00:03:12	276, b	S 3
	53.03	Fracture Multiple, from 04 to 06 o'clock, within 8 inch: YES	00:03:23	278, b	S 4
	63.37	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:03:51	280	
	102.85	Tap Factory Made Capped, at 09 o'clock, 6", within 8 inch: YES	00:04:59	281	
	105.40	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:05:11	282	
	123.12	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:05:49	283	
	126.01	Downstream Manhole, Survey Ends 1705-0968	00:06:10	284	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4131	2200	9	4	13	3	2	2.6



Inspection report

Date: 20100823	P.O.#: Y0TV0910D	Weather: 1 Dry	Surveyed By: J SALAS	section number: 792	PSR: 66720
Total Pipe Length: 289	Survey Customer: LACDPW	System Owner: CAR	Clean Date: 08/23/2010	Pre-Cleaned: J Jetting	Map Grid #: 1705

Street: 220TH ST	Flow Control: N Not Controlled	Start MH: 1705-0969
City: CAR	Year Renewed:	End MH: 1705-0649
Location Code: C Light Highway	Tape/Media #:	pipe length: 309.14 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 289
Drain. Area: 0649/1705-0969/1705	Lining Method:
	Category:

Remark:: **CRACK**

1:775	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 1705-0969		69	
	<u>0.00</u>	Water Level, 10 % of cross sectional area			M 2
	<u>0.00</u>	Water Mark, 10 % of cross sectional area			M 2
	<u>13.05</u>	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:01:06	70	
	<u>41.86</u>	Tap Break-In Active, at 03 o'clock, 6", within 8 inch: YES	00:02:03	71	
	<u>49.48</u>	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:02:29	72	
	<u>50.78</u>	Crack Longitudinal, at 04 o'clock, within 8 inch: YES	00:02:39	73, b	S 2
	<u>56.50</u>	Tap Break-In Active, at 02 o'clock, 4", within 8 inch: YES	00:03:00	75	
	<u>58.33</u>	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:03:11	76	
	<u>91.49</u>	Tap Factory Made Capped, at 03 o'clock, 6", within 8 inch: YES	00:04:15	77	
	<u>122.66</u>	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:05:16	78	
	<u>123.97</u>	Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES	00:05:26	79, b	S 3
	<u>143.48</u>	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:06:18	81	
	<u>173.88</u>	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:07:21	82	
	<u>185.74</u>	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:07:49	83	
	<u>193.07</u>	Tap Break-In Active, at 10 o'clock, 4", within 8 inch: YES	00:08:10	84	
	<u>197.48</u>	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	00:08:25	85	
	<u>234.16</u>	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:09:38	86	
	<u>249.18</u>	Tap Factory Made Capped, at 09 o'clock, 6", within 8 inch: YES	00:11:08	87	
	<u>253.85</u>	Crack Longitudinal, at 04 o'clock, within 8 inch: YES	00:11:28	88, b	S 2
	<u>262.69</u>	Fracture Multiple, from 03 to 06 o'clock, within 8 inch: YES	00:12:03	90, b	S 4
	<u>278.00</u>	Crack Longitudinal, at 04 o'clock, within 8 inch: YES	00:12:57	92, b	S 2
	<u>309.14</u>	Downstream Manhole, Survey Ends 1705-0649	00:14:16	94	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4131	2200	13	4	17	2.6	2	2.43



Inspection report

Date: 20100803	P.O.#: Y0TV0910D	Weather: 1 Dry	Surveyed By: J SALAS	section number: 7	PSR: 66505
Total Pipe Length: 271	Survey Customer: LACDPW	System Owner: CAR	Clean Date: 08/03/2010	Pre-Cleaned: J Jetting	Map Grid #: 1705

Street: SHEARER AV	Flow Control: N Not Controlled	Start MH: 1705-0971
City: CAR	Year Renewed:	End MH: 1705-0804
Location Code: C Light Highway	Tape/Media #:	pipe length: 272.48 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 271
Drain. Area: 0804/1705-0971/1705	Lining Method:
	Category:

Remark:: **NONE**

1:675	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 1705-0971	00:00:00	209	
	0.00	Water Level, 10 % of cross sectional area	00:00:00		M 2
	0.00	Water Mark, 10 % of cross sectional area	00:00:00		M 2
	9.23	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:01:35	210	
	39.14	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:02:39	211	
	52.39	Crack Multiple, from 03 to 05 o'clock, within 8 inch: YES	00:03:18	212, b	S 3
	59.61	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	00:03:50	214	
	83.30	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	00:04:43	215	
	119.23	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:05:59	216	
	121.54	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:06:11	217	
	190.28	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:08:24	218	
	193.90	Fracture Multiple, from 12 to 12 o'clock, within 8 inch: YES	00:08:40	219, b	S 4
	195.60	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:08:59	221	
	234.04	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:10:14	222	
	248.59	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:10:48	223	
	272.48	Downstream Manhole, Survey Ends 1705-0804	00:11:53	224	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4131	2200	7	4	11	3.5	2	2.75



Inspection report

Date: 20101103	P.O.#: Y0TV0910D	Weather: 1 Dry	Surveyed By: B FUGATE	section number: 2762	PSR: 61437
Total Pipe Length: 261	Survey Customer: LACDPW	System Owner: CAR	Clean Date: 11/03/2010	Pre-Cleaned: J Jetting	Map Grid #: 1760

Street: AVALON BV	Flow Control: N Not Controlled	Start MH: 1760-0355
City: CAR	Year Renewed:	End MH: 1760-0356
Location Code: A Main Highway - Urban	Tap/Media #:	pipe length: 221.18 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 261
Drain. Area: 0355/1760-0356/1760	Lining Method:
	Category:

Remark:: **NONE**

1:550	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 1760-0355		1	
	0.00	Water Level, 5 of cross sectional area			M 2
	0.00	Water Mark, 5 % of cross sectional area			M 2
	7.29	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:00:45	2	
	62.49	Tap Factory Made Capped, at 09 o'clock, 6", within 8 inch: YES	00:02:28	3	
	108.84	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:03:44	4	
	153.74	Tap Factory Made Capped, at 09 o'clock, 6", within 8 inch: YES	00:05:13	5	
	199.60	Tap Factory Made Capped, at 09 o'clock, 6", within 8 inch: YES	00:06:42	6	
	200.38	Fracture Multiple, from 11 to 05 o'clock, within 8 inch: YES	00:06:50	7, b	S 4
	203.69	Crack Circumferential, from 06 to 10 o'clock, within 8 inch: YES	00:07:13	9, b	S 1
	213.31	Crack Multiple, from 03 to 10 o'clock, within 8 inch: YES	00:07:43	11, b	S 3
	221.18	Downstream Manhole, Survey Ends 1760-0356	00:08:23	13	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4131	2200	8	4	12	2.67	2	2.4



Inspection report

Date: 20100825	P.O.#: Y0TV0910D	Weather: 1 Dry	Surveyed By: R RUIZ	section number: 851	PSR: 67372
Total Pipe Length: 321	Survey Customer: LACDPW	System Owner: CAR	Clean Date: 08/25/2010	Pre-Cleaned: J Jetting	Map Grid #: 1705

Street: FIGUEROA ST	Flow Control: N Not Controlled	Start MH: 1705-0041
City: CAR	Year Renewed:	End MH: 1705-0042
Location Code: A Main Highway - Urban	Tape/Media #:	pipe length: 309.41 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 321
Drain. Area: 0041/1705-0042/1705	Lining Method:
	Category:

Remark::

1:775	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 1705-0041	00:00:05	16	
	2.41	Water Level, 10 % of cross sectional area	00:00:18		M 2
	2.41	Water Mark, 10 % of cross sectional area	00:00:18		M 2
	45.16	Tap Factory Made, at 02 o'clock, 6", within 8 inch: NO	00:01:35	17	
	106.98	Crack Circumferential, from 12 to 05 o'clock, within 8 inch: YES	00:03:35	18, b	S 1
	107.89	Tap Factory Made, at 02 o'clock, 6", within 8 inch: NO	00:03:49	20	
	131.67	Tap Factory Made, at 02 o'clock, 6", within 8 inch: NO	00:04:35	21	
	191.09	Tap Factory Made Capped, at 02 o'clock, 6", within 8 inch: NO	00:06:20	22	
	241.87	Tap Factory Made Capped, at 02 o'clock, 6", within 8 inch: NO	00:07:52	23	
	264.45	Roots Fine Joint, from 02 to 04 o'clock, within 8 inch: YES	00:08:47	24, b	
	291.95	Tap Factory Made, at 02 o'clock, 4", within 8 inch: NO, Remark: ROOTS	00:09:59	26	
	291.95	Roots Ball Lateral, at 02 o'clock, 95 % within 8 inch: YES	00:10:01	27	M 4
	293.56	Roots Fine Joint, from 10 to 11 o'clock, within 8 inch: YES	00:10:23	28	
	306.00	Broken, from 04 to 05 o'clock, within 8 inch: YES	00:11:20	29, b	S 4
	306.20	Crack Spiral, from 03 to 05 o'clock, within 8 inch: YES	00:11:35	31, b	S 2
	309.41	Downstream Manhole, Survey Ends 1705-0042	00:12:01	33	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4121	4122	7	8	15	2.33	2.67	2.5



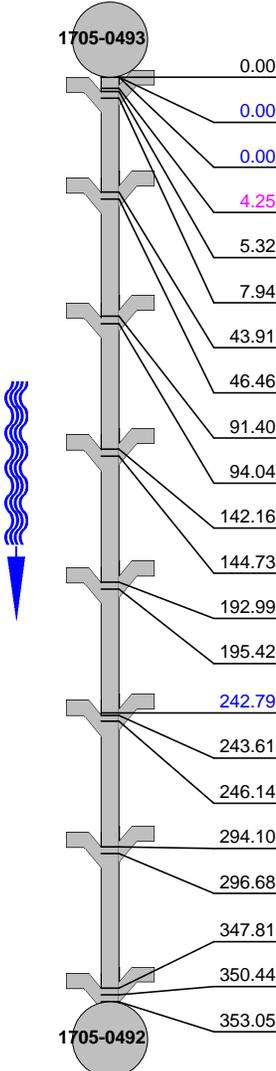
Inspection report

Date: 20100824	P.O.#: Y0TV0910D	Weather: 1 Dry	Surveyed By: J SALAS	section number: 802	PSR: 66815
Total Pipe Length: 344	Survey Customer: LACDPW	System Owner: CAR	Clean Date: 08/24/2010	Pre-Cleaned: J Jetting	Map Grid #: 1705

Street: MARBELLA AV	Flow Control: N Not Controlled	Start MH: 1705-0493
City: CAR	Year Renewed:	End MH: 1705-0492
Location Code: C Light Highway	Tape/Media #:	pipe length: 353.05 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 344
Drain. Area: 0492/1705-0493/1705	Lining Method:
	Category:

Remark:: **NONE**

1:875	position	observation	MPEG	photo	grade
					
	0.00	Upstream Manhole, Survey Begins 1705-0493		230	
	0.00	Water Level, 5 % of cross sectional area			M 2
	0.00	Water Mark, 5 % of cross sectional area			M 2
	4.25	Fracture Multiple, from 09 to 12 o'clock, within 8 inch: YES	00:01:02	231, b	S 4
	5.32	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:01:15	233	
	7.94	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:01:26	234	
	43.91	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:02:22	235	
	46.46	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:02:31	236	
	91.40	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:03:47	237	
	94.04	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:03:57	238	
	142.16	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:05:15	239	
	144.73	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:05:26	240	
	192.99	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:06:41	241	
	195.42	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:06:54	242	
	242.79	Crack Longitudinal, at 09 o'clock, within 8 inch: YES	00:08:12	243, b	S 2
	243.61	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:08:25	245	
	246.14	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:08:40	246	
	294.10	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:10:11	247	
	296.68	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:10:29	248	
	347.81	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:11:50	249	
	350.44	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:12:01	250	
	353.05	Downstream Manhole, Survey Ends 1705-0492	00:12:23	251	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4121	2200	6	4	10	3	2	2.5



Inspection report

Date: 20100810	P.O.#: Y0TV0910D	Weather: 1 Dry	Surveyed By: R RUIZ	section number: 364	PSR: 66520
Total Pipe Length: 72	Survey Customer: LACDPW	System Owner: CAR	Clean Date: 08/10/2010	Pre-Cleaned: J Jetting	Map Grid #: 1705

Street: MAIN ST	Flow Control: N Not Controlled	Start MH: 1705-0818
City: CAR	Year Renewed:	End MH: 1705-TRNK
Location Code: C Light Highway	Tape/Media #:	pipe length: 80.09 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 72
Drain. Area: 0818/1705-TRNK/1705	Lining Method:
	Category:

Remark::

1:200	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 1705-0818	00:00:12	36	
	3.91	Water Level, 5 % of cross sectional area	00:00:31		M 2
	3.91	Water Mark, 5 % of cross sectional area	00:00:32		M 2
	10.84	Fracture Circumferential, from 09 to 03 o'clock, within 8 inch: YES	00:01:25	37, b	S 2
	45.26	Hole, from 05 to 07 o'clock, within 8 inch: YES	00:03:31	39, b	S 4
	76.88	Water Level, 50 % of cross sectional area	00:05:58		M 2
	80.09	Camera Underwater	00:08:08		M 4
	80.09	Downstream Manhole, Survey Ends 1705-1004	00:08:15	41	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4121	4123	6	10	16	3	2.5	2.67



Inspection report

Date: 20100804	P.O.#: Y0TV0910D	Weather: 1 Dry	Surveyed By: J SALAS	section number: 80	PSR: 66514
Total Pipe Length: 247	Survey Customer: LACDPW	System Owner: CAR	Clean Date: 08/04/2010	Pre-Cleaned: J Jetting	Map Grid #: 1705

Street: BOLSA ST	Flow Control: N Not Controlled	Start MH: 1705-1046
City: CAR	Year Renewed:	End MH: 1705-0813
Location Code: C Light Highway	Tape/Media #:	pipe length: 231.32 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 247
Drain. Area: 0813/1705-1046/1705	Lining Method:
	Category:

Remark:: **NONE**

1:575	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 1805-1046		63	
	0.00	Water Level, 10 % of cross sectional area			M 2
	0.00	Water Mark, 10 % of cross sectional area			M 2
	27.17	Crack Circumferential, from 09 to 11 o'clock, within 8 inch: YES	00:01:47	64, b	S 1
	28.22	Tap Factory Made Capped, at 09 o'clock, 6", within 8 inch: YES	00:02:01	66	
	82.02	Tap Factory Made Capped, at 09 o'clock, 6", within 8 inch: YES	00:03:54	67	
	89.77	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:04:15	68	
	111.33	Fracture Multiple, from 08 to 10 o'clock, within 8 inch: YES	00:05:06	69, b	S 4
	112.10	Crack Longitudinal, at 12 o'clock, within 8 inch: YES	00:05:24	71, b	S 2
	128.56	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:06:06	73	
	136.00	Tap Factory Made Capped, at 09 o'clock, 6", within 8 inch: YES	00:06:40	74	
	184.32	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:09:01	75	
	185.11	Water Level, 15 of cross sectional area	00:09:13		M 2
	187.16	Tap Factory Made Capped, at 09 o'clock, 6", within 8 inch: YES	00:09:22	76	
	215.60	Water Level, 20 % of cross sectional area	00:10:51		M 2
	231.32	Downstream Manhole, Survey Ends 1705-0813	00:11:46	77	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4121	2400	7	8	15	2.33	2	2.14



Inspection report

Date: 20110106	P.O.#: Y0TV0910D	Weather: 1 Dry	Surveyed By: B FUGATE	section number: 4041	PSR: 61580
Total Pipe Length: 237	Survey Customer: LACDPW	System Owner: CAR	Clean Date: 01/06/2011	Pre-Cleaned: J Jetting	Map Grid #: 1760

Street: 213TH ST	Flow Control: N Not Controlled	Start MH: 1760-0215
City: CAR	Year Renewed:	End MH: 1760-0214
Location Code: C Light Highway	Tap/Media #:	pipe length: 221.37 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 237
Drain. Area: 0214/1760-0215/1760	Lining Method:
	Category:

Remark:: **AGAINST FLOW**

1:550	position	observation	MPEG	photo	grade
	0.00	Downstream Manhole, Survey Begins 1760-0215		3	
	0.00	Water Level, 5 % of cross sectional area			M 2
	0.00	Water Mark, 5 of cross sectional area			M 2
	23.52	Tap Factory Made Capped, at 09 o'clock, 6", within 8 inch: YES	00:01:16	38	
	41.69	Fracture Multiple, from 07 to 05 o'clock, within 8 inch: YES	00:01:59	39, b	S 4
	67.34	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:02:49	41	
	81.92	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:03:18	42	
	129.83	Tap Factory Made Capped, at 09 o'clock, 6", within 8 inch: YES	00:04:40	43	
	168.22	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:05:57	44	
	175.99	Tap Factory Made Capped, at 09 o'clock, 6", within 8 inch: YES	00:06:16	45	
	201.74	Roots Fine Joint, from 03 to 06 o'clock, within 8 inch: YES	00:07:08	46, b	
	215.06	Tap Factory Made Capped, at 09 o'clock, 6", within 8 inch: YES	00:07:34	48	
	219.33	Crack Circumferential, from 12 to 12 o'clock, within 8 inch: YES	00:07:46	49, b	S 1
	221.37	Upstream Manhole, Survey Ends 1760-0214	00:08:14	51	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4111	2200	5	4	9	2.5	2	2.25



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Inspection report

Date: 20101110	P.O.#: Y0TV0910D	Weather: 1 Dry	Surveyed By: B FUGATE	section number: 3125	PSR: 67449
Total Pipe Length: 50	Survey Customer: LACDPW	System Owner: CAR	Clean Date: 11/10/2010	Pre-Cleaned: J Jetting	Map Grid #: 1704

Street: TORRANCE BV	Flow Control: N Not Controlled	Start MH: 1704-0121
City: CAR	Year Renewed:	End MH: 1704-TRNK
Location Code: A Main Highway - Urban	Tape/Media #:	pipe length: 12.92 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 50
Drain. Area: 0121/1704-TRNK/1704	Lining Method:
	Category:

Remark:: **NONE**

1:50	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 1704-0121		63	
	0.00	Water Level, 5 % of cross sectional area			M 2
	0.00	Water Mark, 5 % of cross sectional area			M 2
	6.90	Fracture Multiple, from 12 to 12 o'clock, within 8 inch: YES	00:01:15	64, b	S 4
	12.92	Drop Connection, Survey Ends 1704-TRNK	00:02:28	66, b	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4100	2200	4	4	8	4	2	2.67



Inspection report

Date: 20100813	P.O.#: Y0TV0910D	Weather: 1 Dry	Surveyed By: R RUIZ	section number: 310	PSR: 66874
Total Pipe Length: 314	Survey Customer: LACDPW	System Owner: CAR	Clean Date: 08/13/2010	Pre-Cleaned: J Jetting	Map Grid #: 1705

Street: PRIVATE RD	Flow Control: N Not Controlled	Start MH: 1705-0419
City: CAR	Year Renewed:	End MH: 1705-0418
Location Code: G Parking Lot	Tape/Media #:	pipe length: 311.72 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 314
Drain. Area: 0418/1705-0419/1705	Lining Method:
	Category:

Remark::

1:775	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 1705-0419	00:00:13	230	
	0.00	Water Level, 0 % of cross sectional area	00:00:35		M 2
	0.00	Water Mark, 5 % of cross sectional area	00:00:37		M 2
	14.45	Tap Factory Made, at 02 o'clock, 6", within 8 inch: NO	00:01:09	231	
	32.92	Water Level, 5 % of cross sectional area	00:01:48		M 2
	100.16	Tap Factory Made, at 02 o'clock, 6", within 8 inch: NO	00:03:48	232	
	125.15	Tap Factory Made, at 02 o'clock, 6", within 8 inch: NO	00:04:38	233	
	211.06	Tap Factory Made, at 02 o'clock, 6", within 8 inch: NO	00:06:58	234	
	236.05	Tap Factory Made, at 02 o'clock, 4", within 8 inch: NO	00:07:34	235	
	303.69	Fracture Multiple, from 09 to 01 o'clock, within 8 inch: YES	00:09:40	236, b	S 4
	311.72	Downstream Manhole, Survey Ends 1705-0418	00:10:31	238	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4100	2300	4	6	10	4	2	2.5



Inspection report

Date: 20100805	P.O.#: Y0TV0910D	Weather: 1 Dry	Surveyed By: J SALAS	section number: 92	PSR: 66497
Total Pipe Length: 290	Survey Customer: LACDPW	System Owner: CAR	Clean Date: 08/05/2010	Pre-Cleaned: J Jetting	Map Grid #: 1705

Street: 213TH ST	Flow Control: N Not Controlled	Start MH: 1705-0793
City: CAR	Year Renewed:	End MH: 1705-0794
Location Code: F Sidewalk	Tape/Media #:	pipe length: 291.05 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 290
Drain. Area: 0793/1705-0794/1705	Lining Method:
	Category:

Remark:: **A THE FLOW**

1:725	position	observation	MPEG	photo	grade
	0.00	Downstream Manhole, Survey Begins 1705-0793		108	
	0.00	Water Level, 5 % of cross sectional area			M 2
	0.00	Water Mark, 5 % of cross sectional area			M 2
	46.65	Roots Fine Joint, from 06 to 08 o'clock, within 8 inch: YES	00:02:29	109, b	
	62.46	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:03:16	111, b	
	69.45	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:03:37	113	
	80.31	Roots Fine Joint, from 06 to 12 o'clock, within 8 inch: YES	00:04:03	114, b	
	85.81	Roots Fine Joint, from 12 to 12 o'clock, within 8 inch: YES	00:04:26	116, b	
	118.49	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	00:05:41	118	
	172.38	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	00:07:36	119	
	221.10	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:09:18	120	
	270.09	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:11:04	121	
	283.04	Tap Factory Made Defective, at 09 o'clock, 6", within 8 inch: YES, Remark: Roots	00:11:43	122	M 2
	287.82	Fracture Multiple, from 12 to 12 o'clock, within 8 inch: YES	00:11:58	123, b	S 4
	291.05	Upstream Manhole, Survey Ends 1705-0794	00:12:24	125	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4100	2300	4	6	10	4	2	2.5



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Inspection report

Date: 20100819	P.O.#: Y0TV0910D	Weather: 1 Dry	Surveyed By: R RUIZ	section number: 587	PSR: 66371
Total Pipe Length: 30	Survey Customer: LACDPW	System Owner: CAR	Clean Date: 08/19/2010	Pre-Cleaned: J Jetting	Map Grid #: 1705

Street: 220TH ST	Flow Control: N Not Controlled	Start MH: 1705-0919
City: CAR	Year Renewed:	End MH: 1705-1038
Location Code: C Light Highway	Tapes/Media #:	pipe length: 37.94 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 30
Drain. Area: 0919/1705-1038/1705	Lining Method:
	Category:

Remark::

1:100	position	observation	MPEG	photo	grade
	0.00	Downstream Manhole, Survey Begins 1705-0919	00:00:13	80	
	0.00	Water Level, 5 % of cross sectional area	00:00:23		M 2
	0.00	Water Mark, 5 % of cross sectional area	00:00:25		M 2
	21.68	Material Change, CAS Cast Iron	00:00:59	81	
	33.22	Material Change, VCP Vitrified Clay Pipe	00:01:19	82	
	34.52	Fracture Multiple, from 12 to 12 o'clock, within 8 inch: YES	00:01:33	83, b	S 4
	37.94	Upstream Manhole, Survey Ends 17051038	00:02:11	85	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4100	2200	4	4	8	4	2	2.67